



DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE

(Autonomous)

College with Potential for Excellence, Linguistic Minority Institution

Affiliated to University of Madras

Arumbakkam, Chennai – 106.

Post Graduate & Research Department of Economics

M.A.Economics – Programme Code – 31

B.A. Economics – Programme Code – 01

M.Phil Economics – Programme Code - 51

SYLLABUS – With effect from 2020-21 onwards

CHOICE BASED CREDIT SYSTEM

OUTCOME BASED EDUCATION

PRINCIPAL

**Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106.**

HOD Sign

**Dr. T.S. PREMA, M.A., M.Phil., Ph.D.,
Associate Professor & Head
Post Graduate &
Research Department of Economics (Shift I)
Dwaraka Doss Goverdhan Doss Vaishnav College
Arumbakkam, Chennai - 600106.**

B.A.Economics

SEMESTER – I

| Part | COURSE TITLE | CREDITS | CIA | ESE | Total |
|------|--|-----------|-----|-----|-------|
| I | Language | 3 | 40 | 60 | 100 |
| II | English | 3 | 40 | 60 | 100 |
| III | Core Paper I – Micro Economics - I | 4 | 40 | 60 | 100 |
| | Core Paper II – Statistics - I | 4 | 40 | 60 | 100 |
| | Allied Paper I – Entrepreneurial Development | 5 | 40 | 60 | 100 |
| IV | Soft Skills | 3 | 40 | 60 | 100 |
| | Non-Tamil Students : Basic Tamil / Advanced Tamil Tamil Students: Non – Major Elective- I- Vermitechnology - Principles of Management-Offered to B.Sc Plant Biology | 2 | 40 | 60 | 100 |
| | Total | 24 | | | |

SEMESTER – II

| Part | COURSE TITLE | CREDITS | CIA | ESE | Total |
|------|--|---------|-----|-----|-------|
| I | Language | 3 | 40 | 60 | 100 |
| II | English | 3 | 40 | 60 | 100 |
| III | Core Paper III –Micro Economics - II | 4 | 40 | 60 | 100 |
| | Core Paper IV – Statistics - II | 4 | 40 | 60 | 100 |
| | Allied Paper II – Marketing | 5 | 40 | 60 | 100 |
| IV | Soft Skills | 3 | 40 | 60 | 100 |
| | Non-Tamil Students : Basic Tamil / Advanced Tamil Tamil Students: Non – Major Elective II Public Health&Hygiene | 2 | 40 | 60 | 100 |

| | | | | | |
|--|--|-----------|--|--|--|
| | Basics of Capital Market- - Offered to B.Sc Plant Biology | | | | |
| | Total | 24 | | | |

SEMESTER – III

| Part | COURSE TITLE | CREDITS | CIA | ESE | Total |
|------|--|-----------|-----|-----|-------|
| I | Language | 3 | 40 | 60 | 100 |
| II | English | 3 | 40 | 60 | 100 |
| III | Core Paper V – Indian Economic development and Policy - I | 4 | 40 | 60 | 100 |
| | Core Paper VI Monetary Economics - I | 4 | 40 | 60 | 100 |
| | Allied Paper III – Tourism and Economic Development | 5 | 40 | 60 | 100 |
| IV | Soft Skills | 3 | 40 | 60 | 100 |
| | | | | | |
| | Total | 22 | | | |

SEMESTER – IV

| Part | COURSE TITLE | CREDITS | CIA | ESE | Total |
|------|---|---------|-----|-----|-------|
| I | Language | 3 | 40 | 60 | 100 |
| II | English | 3 | 40 | 60 | 100 |
| III | Core Paper VII – Indian Economic Development and Policy - II | 4 | 40 | 60 | 100 |
| | Core Paper VIII – Monetary Economics - II | 4 | 40 | 60 | 100 |
| | Allied Paper IV - Elements of Insurance | 5 | 40 | 60 | 100 |
| IV | Soft Skills | 3 | 40 | 60 | 100 |
| | Environmental Studies | 2 | 40 | 60 | 100 |

| | | | | | |
|--|--------------|-----------|--|--|--|
| | Total | 24 | | | |
|--|--------------|-----------|--|--|--|

SEMESTER – V

| Part | COURSE TITLE | CREDITS | CIA | ESE | Total |
|-------------|--|----------------|------------|------------|--------------|
| III | Core Paper IX – Macro Economics-I | 4 | 40 | 60 | 100 |
| | Core Paper X – Fiscal Economics - I | 4 | 40 | 60 | 100 |
| | Core Paper XI – International Economics-I | 4 | 40 | 60 | 100 |
| | Core Paper XII – History Of Economic Thought | 4 | 40 | 60 | 100 |
| | Elective I – Managerial Economics | 5 | 40 | 60 | 100 |
| IV | Value Education | 2 | 40 | 60 | 100 |
| | Total | 23 | | | |

SEMESTER – VI

| Part | COURSE TITLE | CREDITS | CIA | ESE | Total |
|-------------|---|----------------|------------|------------|--------------|
| III | Core Paper XIII – Macro Economics - II | 4 | 40 | 60 | 100 |
| | Core Paper XIV – Fiscal Economics - II | 4 | 40 | 60 | 100 |
| | Core Paper XV – International Economics - II | 4 | 40 | 60 | 100 |
| | Core Paper XVI – Human Resource Management | 4 | 40 | 60 | 100 |
| | Elective II – Environmental Economics | 5 | 40 | 60 | 100 |
| | Elective II – Home Economics | 5 | 40 | 60 | 100 |
| V | Extension Activity | 2 | | | |
| | Total | 23 | | | |
| | Common Elective Offered to other Departments | | | | |

| | | | | | |
|--|---|----------|-----------|-----------|------------|
| | Home Economics | 5 | 40 | 60 | 100 |
| | Indian Economic Development and Policy | 5 | 40 | 60 | 100 |



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Arumbakkam, Chennai – 600 106


DEPARTMENT OF ECONOMICS


BA ECONOMICS – PROGRAM CODE – 02

SYLLABUS WITH EFFECT FROM 2020-21

CHOICE BASED CREDIT SYSTEM

OUTCOME BASED EDUCATION


PRINCIPAL
Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106.


Dr. T.S. PREMA, M.A., M.Phil., Ph.D.,
Head
Department of Economics (Shift II)
Dwaraka Doss Goverdhan Doss Vaishnav College
Arumbakkam, Chennai - 600106.

**DEPARTMENT OF ECONOMICS (SHIFT II)
CHOICE BASED CREDIT SYSTEM**

| Course Component | Sem | Subjects | Inst Hrs | Credits |
|-----------------------------|------------------------|-------------------------------|-------------------|----------------|
| Part I | I | Language paper-I | 4 | 3 |
| Part II | | English Paper -I | 4 | 3 |
| Core | | Micro Economics-I | 6 | 5 |
| Core | | Statistics - I | 6 | 5 |
| Allied | | Principles of Management | 6 | 5 |
| NME | | Economics of Tourism | 2 | 2 |
| Soft skills I | | | 2 | 3 |
| Part I | II | Language paper-II | 4 | 3 |
| Part II | | English Paper -II | 4 | 3 |
| Core | | Micro Economics-II | 6 | 5 |
| Core | | Statistics -II | 6 | 5 |
| Allied | | Entrepreneurial Development | 6 | 5 |
| NME | | Computer and its Applications | 2 | 2 |
| Soft skills II | | | 2 | 3 |
| Part I | III | Language paper-III | 4 | 3 |
| Part II | | English Paper -III | 4 | 3 |
| Core | | Marketing | 6 | 5 |
| Core | | Monetary Economics-I | 6 | 5 |
| Allied | | Financial Services | 6 | 5 |
| Soft skills II | | | 2 | 3 |
| Part I | | IV | Language paper-IV | 4 |
| Part II | English Paper -IV | | 4 | 3 |
| Core | Indian Economy | | 6 | 5 |
| Core | Monetary Economics- II | | 6 | 5 |
| Allied | Elements of Insurance | | 6 | 5 |
| | Environmental Studies | | 2 | 2 |
| Soft skills IV | | | | 3 |
| Part III Core Courses | V | Macro Economics -I | 6 | 5 |
| | | Fiscal Economics -I | 6 | 5 |
| | | International Economics - I | 6 | 5 |
| | | Human resource Management | 6 | 5 |
| Elective - I | | Income Tax | 6 | 5 |
| Part IV Core Courses | VI | Macro Economics -II | 6 | 5 |
| | | Fiscal Economics -II | 6 | 5 |
| | | International Economics - II | 6 | 5 |
| Elective - II | | Entrepreneurial Development | 6 | 5 |
| Elective - III | | Management Accounting | 6 | 5 |
| | | NCC, NSS | | 2 |
| | Value Education | | 2 | |



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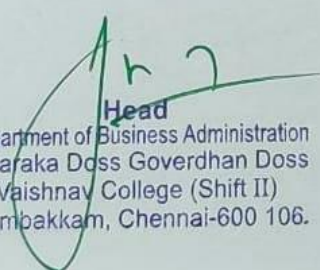
DEPARTMENT OF BUSINESS ADMINISTRATION
(BBA)

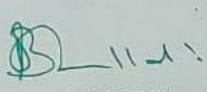
Programme Code - 003

Choice Based Credit System (CBCS)

OUTCOME BASED EDUCATION SYLLABUS

Effective from Batch 2020


Head
Department of Business Administration
Dwaraka Doss Goverdhan Doss
Vaishnav College (Shift II)
Arumbakkam, Chennai-600 106.


PRINCIPAL
Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106.

DEPARTMENT OF BUSINESS ADMINISTRATION (BBA)

Programme Code - 003

Choice Based Credit System (CBCS)

OUTCOME BASED EDUCATION SYLLABUS

Effective from Batch 2020

COURSE SCHEME OF 1st SEMESTER

| Sl. NO | Course Category | Course Code | Course | Overall Credits | Total Contact Hours/Week | Marks | | |
|--------------|-----------------|-------------|---------------------------|-----------------|--------------------------|-------|------|-------|
| | | | | | | CI A | ES E | Total |
| 1 | Foundation | | Language –I | 3 | 4 | 40 | 60 | 100 |
| 2 | Foundation | | English – I | 3 | 4 | 40 | 60 | 100 |
| 3 | Core I | 03101 | Accounting for managers-I | 4 | 6 | 40 | 60 | 100 |
| 4 | Core II | 03102 | Principles of management | 4 | 6 | 40 | 60 | 100 |
| 5 | Allied I | 03103 | Managerial Economics | 4 | 6 | 40 | 60 | 100 |
| 6 | Non-Major | 03104 | Consumer Behavior | 2 | 2 | 40 | 60 | 100 |
| 7 | | | Soft skills | 2 | 1 | 40 | 60 | 100 |
| Total | | | | 22 | 30 | | | |

COURSE SCHEME OF IInd SEMESTER

| Sl. | Course category | Course | Course | Overall Credits | Total Contact Hours/Week | Marks | | |
|--------------|-----------------|--------|-----------------------------------|-----------------|--------------------------|-------|-----|-------|
| | | | | | | CIA | ESE | Total |
| 1 | Foundation | | Language –II | 3 | 4 | 40 | 60 | 100 |
| 2 | Foundation | | English – II | 3 | 4 | 40 | 60 | 100 |
| 3 | Core III | 03205 | Accounting for managers -II | 4 | 6 | 40 | 60 | 100 |
| 4 | Core IV | 03207 | *Computer Application In Business | 4 | 6 | 40 | 60 | 100 |
| 5 | Allied I | 03206 | Business Communication | 4 | 6 | 40 | 60 | 100 |
| 6 | Non-major | 03208 | Personality Development | 2 | 2 | 40 | 60 | 100 |
| 7 | | | Soft skills | 2 | 2 | 40 | 60 | 100 |
| Total | | | | 22 | 30 | | | |

COURSE SCHEME OF IIIrd SEMESTER BBA

| Sl.No | Course category | Course Code | Course | Overall Credits | Total Contact Hours/ Week | Marks | | |
|--------------|-----------------|-------------|---------------------------|-----------------|---------------------------|-------|-----|-------|
| | | | | | | CIA | ESE | Total |
| 1 | Core V | 03309 | Financial Management | 4 | 6 | 40 | 60 | 100 |
| 2 | Core VI | 03310 | Marketing Management | 4 | 6 | 40 | 60 | 100 |
| 3 | Core VII | 03311 | Human Resource Management | 4 | 5 | 40 | 60 | 100 |
| 4 | Allied I | 08321 | Business Maths | 4 | 5 | 40 | 60 | 100 |
| 5 | Allied II | 03312 | Production Management | 4 | 5 | 40 | 60 | 100 |
| 6 | | | Soft Skill | 2 | 2 | 40 | 60 | 100 |
| 7 | | | Environmental Studies | | 1 | | | |
| Total | | | | 22 | 30 | | | |

COURSE SCHEME OF IVth SEMESTER

| Sl.NO | Course category | Course Code | Course | Overall Credits | Total Contact Hours/W eek | Marks | | |
|--------------|----------------------|-------------|--|-----------------|---------------------------|-------|-----|-------|
| | | | | | | CIA | ESE | Total |
| 1 | Core VIII | 03413 | Research Methodology | 5 | 5 | 40 | 60 | 100 |
| 2 | Core IX (Elective)** | 03414A | (A) Advertising management and sales promotion | 5 | 6 | 40 | 60 | 100 |
| | | 03414B | (B)Industrial Relation | | | | | |
| | | 03414C | (C) Family Business Management I | | | | | |
| 3 | Core X | 08426 | Operation Research | 5 | 5 | 40 | 60 | 100 |
| 4 | Allied I | 03415 | Business Statistics | 4 | 5 | 40 | 60 | 100 |
| 5 | Allied II | 03416 | International Trade | 4 | 6 | 40 | 60 | 100 |
| 6 | | | Soft Skill | 2 | 2 | 40 | 60 | 100 |
| 7 | | | Environmental Studies | 2 | 1 | 40 | 60 | 100 |
| Total | | | | 27 | 30 | | | |

COURSE SCHEME OF Vth SEMESTER

| Sl.NO | Course category | Course Code | Course | Over all Credits | Total Contact Hours/Week | Marks | | |
|--------------|----------------------|-------------|-----------------------------------|------------------|--------------------------|-------|-----|-------|
| | | | | | | CIA | ESE | Total |
| 1 | Core XI (Elective)** | 03517A | (A)Services Marketing | 5 | 6 | 40 | 60 | 100 |
| | | 03517B | (B)Organization Psychology | | | | | |
| | | 03517C | (C) Family Business Management II | | | | | |
| 2 | Core XII | 03518 | Business Taxation | 5 | 6 | 40 | 60 | 100 |
| 3 | Core XIII | 03519 | Legal Aspects of Business | 5 | 6 | 40 | 60 | 100 |
| 4 | Allied I | 03520 | Entrepreneurial Development | 5 | 6 | 40 | 60 | 100 |
| 5 | Allied II | 03521 | Materials Management | 5 | 6 | 40 | 60 | 100 |
| Total | | | | 25 | 30 | | | |

COURSE SCHEME OF VIth SEMESTER

| Sl.NO | Course category | Course Code | Course | Over all Credits | Total Contact Hours/Week | Marks | | |
|--------------|-----------------|-------------|--------------------------|------------------|--------------------------|-------|-----|-------|
| | | | | | | CIA | ESE | Total |
| 1 | Core XIV | 03622 | Business ethics & values | 5 | 6 | 40 | 60 | 100 |
| 2 | Core XV | 03623 | Personality Development | 5 | 6 | 40 | 60 | 100 |
| 3 | Core XVI | 03626 | Project | 6 | 6 | 40 | 60 | 100 |
| 4 | Allied I | 03624 | Financial Services | 5 | 6 | 40 | 60 | 100 |
| 5 | Allied II | 03625 | Information Management | 5 | 6 | 40 | 60 | 100 |
| Total | | | | 26 | 30 | | | |



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College With Potential Excellence

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**PROGRAMME NAME –
DEPARTMENT OF B.COM
(BANK MANAGEMENT)**

PROGRAMME CODE - BBM04

CHOICE BASED CREDIT SYSTEM

OUTCOME BASED EDUCATION

2020-2021

PRINCIPAL

Dr S SANTHOSH BABOO

PRINCIPAL

**Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106.**

HEAD OF THE DEPARTMENT

Dr B.VIJAYAKUMAR

Head

**Department of Bank Management
Dwaraka Doss Goverdhan Doss
Vaishnav College (Shift II)
Arumbakkam, Chennai-600 106.**



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College With Potential Excellence

Linguistic Minority Institution, Affiliated to University of Madras

DEPARTMENT OF B.COM BANK MANAGEMENT

FIRST SEMESTER

| Sl. NO | Course Component | Name of the Course | Instructional Hours 4+2* | Credits | Examination Hours | Marks | |
|--------------|-------------------------------------|---|-----------------------------|---------|-------------------|-------|-----|
| | | | | | | CIA | ESE |
| 1 | Part I | Language | 4 | 3 | 3 | 40 | 60 |
| 2 | Part II | English | 4 | 3 | 3 | 40 | 60 |
| 3 | Part III – Core course Paper I | Principles of Financial Accounting | 6 | 4 | 3 | 40 | 60 |
| 4 | Part III – Core course Paper II | Business Communication | 6 | 4 | 3 | 40 | 60 |
| 5 | Part III – Allied course Paper I | Business Statistics | 6 | 5 | 3 | 40 | 60 |
| 6 | Part IV – Basic Tamil / NME Paper I | Non Major Elective/ Basic Tamil/ Advanced Tamil | 2 | 2 | 3 | 50 | 50 |
| 7 | Part IV | Soft Skills I | 2 | 2 | 3 | 50 | 50 |
| Total | | | 30 | 23 | 30 | | |



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SECOND SEMESTER

| Sl. NO | Course Component | Name of the Course | Instructional Hours 4+2* | Credits | Examination Hours | Marks | |
|--------------|---|--|-----------------------------|---------|-------------------|-------|-----|
| | | | | | | CIA | ESE |
| 1 | Part I | Language | 4 | 3 | 3 | 40 | 60 |
| 2 | Part II | English | 4 | 3 | 3 | 40 | 60 |
| 3 | Part III – Core course Paper I | Advanced Financial Accounting | 6 | 4 | 3 | 40 | 60 |
| 4 | Part III – Core course Paper II | Theory of Money and Banking | 6 | 4 | 3 | 40 | 60 |
| 5 | Part III – Allied course Paper I | Operation Research | 6 | 5 | 3 | 40 | 60 |
| 6 | Part IV – Advanced Tamil / NME Paper II | Non Major Elective/ Basic Tamil/ Advanced Tami | 2 | 2 | 3 | 50 | 50 |
| 7 | Part IV | Soft Skills II | 2 | 2 | 3 | 50 | 50 |
| Total | | | 30 | 23 | 30 | | |

Non Major Elective-Semester I offered to Non -Bank Management - Basics of Banking and Insurance - I

Non Major Elective-Semester II offered to Non -Bank Management - Basics of Banking and Insurance - II



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THIRD SEMESTER

| Sl. NO | Course Component | Name of the Course | Instructional Hours | Credits | Examination Hours | Marks | |
|--------------|------------------------------------|----------------------------------|---------------------|---------|-------------------|-------|-----|
| | | | | | | CIA | ESE |
| 1 | Part III – Core course Paper V | Corporate Accounting | 6 | 4 | 3 | 40 | 60 |
| 2 | Part III – Core course Paper VI | Legal Systems in Business | 6 | 4 | 3 | 40 | 60 |
| 3 | Part III – Core course Paper VII | Banking Theory, Law and Practice | 6 | 4 | 3 | 40 | 60 |
| 4 | Part III – Core course Paper VIII | Business Management | 6 | 4 | 3 | 40 | 60 |
| 5 | Part III – Allied course Paper III | Computer Application in Business | 6 | 5 | 3 | 40 | 60 |
| 6 | | Soft Skills III | 2 | 3 | 3 | 50 | 50 |
| 7 | | Environmental Studies | 2 | 1 | 3 | 50 | 50 |
| Total | | | 34 | 29 | 30 | | |



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FOURTH SEMESTER

| Sl. NO | Course Component | Name of the Course | Instructional Hours | Credits | Examination Hours | Marks | |
|--------------|-----------------------------------|--------------------------------------|---------------------|---------|-------------------|-------|-----|
| | | | | | | CIA | ESE |
| 1 | Part III – Core course Paper IX | Advanced Corporate Accounting | 6 | 4 | 3 | 40 | 60 |
| 2 | Part III – Core course Paper X | Financial Services and Bancassurance | 6 | 4 | 3 | 40 | 60 |
| 3 | Part III – Core course Paper XI | Entrepreneurial Development | 6 | 4 | 3 | 40 | 60 |
| 4 | Part III – Core course Paper XII | Marketing of Banking Services | 6 | 4 | 3 | 40 | 60 |
| 5 | Part III – Allied course Paper IV | Business Economics | 6 | 5 | 3 | 40 | 60 |
| 6 | | Soft Skills IV | 2 | 3 | 3 | 50 | 50 |
| 7 | | Environmental Studies | 2 | 1 | 3 | 50 | 50 |
| Total | | | 34 | 26 | 30 | | |



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FIFTH SEMESTER

| Sl. NO | Course Component | Name of the Course | Instructional Hours | Credits | Examination Hours | Marks | |
|--------------|-----------------------------------|----------------------------------|---------------------|---------|-------------------|-------|-----|
| | | | | | | CIA | ESE |
| 1 | Part III – Core course Paper XIII | Cost and Management Accounting | 6 | 4 | 3 | 40 | 60 |
| 2 | Part III – Core course Paper XIV | Investment Management | 6 | 4 | 3 | 40 | 60 |
| 3 | Part III – Core course Paper XV | Indirect Taxes | 6 | 4 | 3 | 40 | 60 |
| 4 | Part III – Elective I | Income Tax Law and Practice - I | 6 | 5 | 3 | 40 | 60 |
| 5 | Open Elective course Paper | Rural Banking / Consumer Affairs | 6 | 5 | 3 | 40 | 60 |
| 6 | | Value Education | 2 | 2 | 3 | 50 | 50 |
| Total | | | 32 | 26 | 30 | | |



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SIXTH SEMESTER

| Sl. NO | Course Component | Name of the Course | Instructional Hours | Credits | Examination Hours | Marks | |
|--------------|------------------------------------|---------------------------------|---------------------|---------|-------------------|-------|-----|
| | | | | | | CIA | ESE |
| 1 | Part III – Core course Paper XVI | Practical Auditing | 6 | 4 | 3 | 40 | 60 |
| 2 | Part III – Core course Paper XVII | Human Resource Management | 6 | 4 | 3 | 40 | 60 |
| 3 | Part III – Core course Paper XVIII | Financial Management | 6 | 4 | 3 | 40 | 60 |
| 4 | Part III – Core course Paper XIX | Technology in Banking | 6 | 4 | 3 | 40 | 60 |
| 5 | Part III – Elective II | Income Tax Law and Practice -II | 6 | 5 | 3 | 40 | 60 |
| 6 | | Extension Activities | 2 | 1 | 3 | 50 | 50 |
| Total | | | 32 | 26 | 30 | | |



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Arumbakkam, Chennai 600 106

PG & Research Department of Commerce

Bachelor in Commerce
(B.COM)

Programme Code: 05

OBE SYLLABUS

Academic Year 2020-2021

CHOICE BASED CREDIT SYSTEM (CBCS)

PROF. S. SESHADRINATHAN
Head of the Department (Shift II)

Head

Department of Commerce
Dwaraka Doss Goverdhan Doss
Vaishnav College (Shift II)
Arumbakkam, Chennai-600 106.

PRINCIPAL

Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106.

Dr J JAYASANKAR
Head of the Department(Shift I)

Dr.J.Jayasankar, M.Com., M.Phil., Ph.D
Associate Professor & Head
Research Supervisor & Guide
PG & Research Dept. of Commerce
Dwaraka Doss Goverdhan Doss Vaishnav college
Arumbakkam, Chennai- 600 106.



Dwaraka Doss Goverdhan Doss Vaishnav College (Autonomous), Chennai – 600 106

[Affiliated to University of Madras]

Post Graduate & Research Department of Commerce

B.Com (General)

FIRST SEMESTER

| S.No | Course Component | Name of the Course | Instructional Hours | Credits | Examination Hours | Max. Marks | |
|------|------------------|--|---------------------|---------|-------------------|------------|-----|
| | | | | | | CIA | ESE |
| 1 | Part – I | Language Courses | 4 +2* | 3 | 3 | 40 | 60 |
| 2 | Part – II | English | 4 | 3 | 3 | 40 | 60 |
| 3 | Part – III | Core I Financial Accounting I | 5 | 4 | 3 | 40 | 60 |
| 4 | Part – III | Core II Business Economics | 5 | 4 | 3 | 40 | 60 |
| 5 | Part – III | Allied I Business Mathematics-I | 5 | 5 | 3 | 40 | 60 |
| 6 | Part – IV | Non Major Elective / *Basic Tamil / Advanced Tamil | 2 | 4 | 3 | 40 | 60 |
| 7 | Part – IV | Skill Based Subject Soft Skills – I | 2 | 3 | 3 | 40 | 60 |
| | Total | | 30 | 26 | | | |

SECOND SEMESTER

| S.No | Course Component | Name of the Course | Instructional Hours | Credits | Examination Hours | Max. Marks | |
|--|------------------|--|---|---------|-------------------|------------|-----|
| | | | | | | CIA | ESE |
| 1 | Part – I | Language Courses | 4 + 2* | 3 | 3 | 40 | 60 |
| 2 | Part – II | English | 4 | 3 | 3 | 40 | 60 |
| 3 | Part – III | Core III Financial Accounting II | 5 | 4 | 3 | 40 | 60 |
| 4 | Part – III | Core IV Business Law | 5 | 4 | 3 | 40 | 60 |
| 5 | Part – III | Allied II Business Maths –II | 6 | 5 | 3 | 40 | 60 |
| 6 | Part – IV | Non Major Elective / *Basic Tamil / Advanced Tamil | 2 | 4 | 3 | 40 | 60 |
| 7 | Part – IV | Skill Based Subject Soft Skills – II | 2 | 3 | 3 | 40 | 60 |
| | Total | | 30 | 26 | | | |
| Non Major Electives (Semester I) (offered to Non-Commerce Students) | | | Non Major Electives (Semester II) (offered to Non-Commerce Students) | | | | |
| 1. Fundamentals of Banking Law & Practice | | | 1. Personal Investment Planning | | | | |



Dwaraka Doss Goverdhan Doss Vaishnav College (Autonomous), Chennai – 600 106

[Affiliated to University of Madras]

Post Graduate & Research Department of Commerce

THIRD SEMESTER

| S.No | Course Component | Name of the Course | Instructional Hours | Credits | Examination Hours | Max. Marks | |
|------|------------------|--|---------------------|---------|--------------------------------------|------------|-----|
| | | | | | | CIA | ESE |
| 1 | Part – III | Core V Corporate Accounting-I | 6 | 4 | 3 | 40 | 60 |
| 2 | Part – III | Core VI Banking & Financial Services | 5 | 4 | 3 | 40 | 60 |
| 3 | Part – III | Core VII Principles of Management | 5 | 4 | 3 | 40 | 60 |
| 4 | Part – III | Core VIII Business Communication | 5 | 4 | 3 | 40 | 60 |
| 5 | Part – III | Allied III Business Statistics & Operations Research-I | 6 | 5 | 3 | 40 | 60 |
| 6 | Part – IV | Skill Based Subject Soft Skills – III | 2 | 3 | 3 | 40 | 60 |
| 7 | Part – IV | Environmental Studies | 1 | | Examination will held in Semester IV | | |
| | Total | | 30 | 24 | | | |

FOURTH SEMESTER

| S.No | Course Component | Name of the Course | Instructional Hours | Credits | Examination Hours | Max. Marks | |
|------|------------------|--|---------------------|---------|-------------------|------------|-----|
| | | | | | | CIA | ESE |
| 1 | Part – III | Core IX Corporate Accounting-II | 5 | 4 | 3 | 40 | 60 |
| 2 | Part – III | Core X Company Law | 5 | 4 | 3 | 40 | 60 |
| 3 | Part – III | Core XI Principles of Marketing | 5 | 4 | 3 | 40 | 60 |
| 4 | Part – III | Core XII Practical Auditing | 6 | 4 | 3 | 40 | 60 |
| 5 | Part – III | Allied IV Business Statistics Operations Research –II | 6 | 5 | 3 | 40 | 60 |
| 6 | Part – IV | Skill Based Subject Soft Skills – IV | 2 | 3 | 3 | 40 | 60 |
| 7 | Part – IV | Environmental Studies | 1 | 2 | 3 | 40 | 60 |
| | Total | | 30 | 26 | | | |



Dwaraka Doss Goverdhan Doss Vaishnav College (Autonomous), Chennai – 600 106

[Affiliated to University of Madras]

Post Graduate & Research Department of Commerce

FIFTH SEMESTER

| Sl.No | Course Component | Name of the Course | Instructional Hours | Credits | Examination Hours | Max. Marks | |
|-------|------------------|---|---------------------|---------|-------------------|------------|-----|
| | | | | | | CIA | ESE |
| 1 | Part – III | Core XIII Cost Accounting | 5 | 4 | 3 | 40 | 60 |
| 2 | Part – III | Core XIV Principles of Financial Management | 5 | 4 | 3 | 40 | 60 |
| 3 | Part – III | Core XV Entrepreneurial Development | 6 | 4 | 3 | 40 | 60 |
| 4 | Part – III | Core XVI Income Tax Law & Practice-I | 6 | 4 | 3 | 40 | 60 |
| 5 | Part – III | Open Elective: Elective I 1. Economic & Corporate Laws (Shift I & II) 2. Office Management (Shift I & II) 3. E-Commerce (Shift II) 4. Marketing of Services (Shift II) | 6 | 5 | 3 | 40 | 60 |
| 6 | Part – IV | Value Education | 2 | 2 | 3 | 40 | 60 |
| | Total | | 30 | 23 | | | |

SIXTH SEMESTER

| S.No | Course Component | Name of the Course | Instructional Hours | Credits | Examination Hours | Max. Marks | |
|------|------------------|--|---------------------|---------|-------------------|------------|-----|
| | | | | | | CIA | ESE |
| 1 | Part – III | Core XVII Management Accounting | 6 | 4 | 3 | 40 | 60 |
| 2 | Part – III | Core XVIII Industrial Law | 6 | 4 | 3 | 40 | 60 |
| 3 | Part – III | Core XIX Income Tax Law & Practice-II | 6 | 4 | 3 | 40 | 60 |
| 4 | Part – III | Elective II 1. Human Resource Management 2. Fundamentals of Insurance | 6 | 5 | 3 | 40 | 60 |
| 5 | Part – III | Elective III Indirect Taxes | 6 | 5 | 3 | 40 | 60 |
| 6 | Part – V | Extension Activity | | 1 | | | |
| | Total | | 30 | 23 | | | |

DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE
[AUTONOMOUS]

College with Potential for Excellence
Linguistic Minority Institution

[Affiliated to University of Madras]
Arumbakkam Chennai 600 106



DEPARTMENT OF CORPORATE SECRETARYSHIP
PROGRAMME CODE - 06

Syllabus

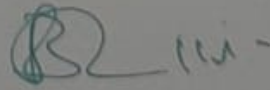
Choice Based Credit System [CBCS]

&

Outcome Based Education [OBE]

Effective for the batch of students admitted from the
Academic year 2020 - 2021


Associate Professor & Head
Department of Corporate Secretaryship
Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai-600 106.


PRINCIPAL
Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106.



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Arumbakkam, Chennai – 600 106.

BACHELOR OF COMMERCE (Corporate Secretaryship)

Choice based credit system (CBCS) &

Outcome Based Education (OBE)

FIRST SEMESTER

| S.No. | Course Component | Name of the Course | Instructional Hours | Credits | Examination Hours | Max. Marks | |
|-------|------------------|---|---------------------|-----------|-------------------|------------|-----|
| | | | | | | CIA | ESE |
| 1 | Part I | Language | 4 + 2* | 3 | 3 | 40 | 60 |
| 2 | Part II | English | 4 | 3 | 3 | 40 | 60 |
| 3 | Part III | Core Paper I – Financial Accounting - I | 5 | 4 | 3 | 40 | 60 |
| 4 | Part III | Core Paper II – Principles of Management | 5 | 4 | 3 | 40 | 60 |
| 5 | Part III | Allied Paper I – Principles of Marketing | 6 | 5 | 3 | 40 | 60 |
| 6 | Part IV | Soft Skills | 2 | 3 | 3 | 40 | 60 |
| 7 | Part IV | Non-Tamil Students : Basic Tamil / Advanced Tamil(*) Tamil Students: Non – Major Elective- I: Everyday Banking | 2 | 2 | 3 | 40 | 60 |
| | | Total | 30 | 24 | | | |



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BACHELOR OF COMMERCE (Corporate Secretaryship)

Choice based credit system (CBCS) &

Outcome Based Education (OBE)

SECOND SEMESTER

| S.No. | Course Component | Name of the Course | Instructional Hours | Credits | Examination Hours | Max. Marks | |
|-------|------------------|---|---------------------|-----------|-------------------|------------|-----|
| | | | | | | CIA | ESE |
| 1 | Part I | Language | 4 + 2* | 3 | 3 | 40 | 60 |
| 2 | Part II | English | 4 | 3 | 3 | 40 | 60 |
| 3 | Part III | Core Paper III – Financial Accounting II | 5 | 4 | 3 | 40 | 60 |
| 4 | Part III | Core Paper IV – Human Resource Management | 5 | 4 | 3 | 40 | 60 |
| 5 | Part III | Allied Paper II – Business Communication | 6 | 5 | 3 | 40 | 60 |
| 6 | Part IV | Soft Skills | 2 | 3 | 3 | 40 | 60 |
| 7 | Part IV | Non-Tamil Students : Basic Tamil / Advanced Tamil(*) Tamil Students: Non – Major Elective- II: Fundamentals of Insurance | 2 | 2 | 3 | 40 | 60 |
| | | Total | 30 | 24 | | | |



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BACHELOR OF COMMERCE (Corporate Secretaryship)

Choice based credit system (CBCS) &

Outcome Based Education (OBE)

THIRD SEMESTER

| S.No. | Course Component | Name of the Course | Instructional Hours | Credits | Examination Hours | Max. Marks | |
|-------|------------------|---|---------------------|-----------|-------------------|------------|-----|
| | | | | | | CIA | ESE |
| 1 | Part I | Language | 6 | 3 | 3 | 40 | 60 |
| 2 | Part II | English | 4 | 3 | 3 | 40 | 60 |
| 3 | Part III | Core Paper V – Corporate Accounting - I | 5 | 4 | 3 | 40 | 60 |
| 4 | Part III | Core Paper VI – Company Law & Secretarial Practice - I | 5 | 4 | 3 | 40 | 60 |
| 5 | Part III | Allied Paper III – Business Statistics | 6 | 5 | 3 | 40 | 60 |
| 6 | Part IV | Soft Skills | 2 | 3 | 3 | 40 | 60 |
| 7 | Part IV | Environmental Studies * | 2 | | 3 | 40 | 60 |
| | | Total | 30 | 22 | | | |

* Examination is conducted in Semester – IV



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BACHELOR OF COMMERCE (Corporate Secretaryship)

Choice based credit system (CBCS) &

Outcome Based Education (OBE)

FOURTH SEMESTER

| S.No. | Course Component | Name of the Course | Instructional Hours | Credits | Examination Hours | Max. Marks | |
|-------|------------------|--|---------------------|-----------|-------------------|------------|-----|
| | | | | | | CIA | ESE |
| 1 | Part I | Language | 6 | 3 | 3 | 40 | 60 |
| 2 | Part II | English | 4 | 3 | 3 | 40 | 60 |
| 3 | Part III | Core Paper VII – Corporate Accounting II | 5 | 4 | 3 | 40 | 60 |
| 4 | Part III | Core Paper VIII – Company Law & Secretarial Practice - II | 5 | 4 | 3 | 40 | 60 |
| 5 | Part III | Allied Paper IV – Business Economics | 6 | 5 | 3 | 40 | 60 |
| 6 | Part IV | Soft Skills | 2 | 3 | 3 | 40 | 60 |
| 7 | Part IV | Environmental Studies * | 2 | 2 | 3 | 40 | 60 |
| | | Total | 30 | 24 | | | |



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BACHELOR OF COMMERCE (Corporate Secretaryship)

**Choice based credit system (CBCS) &
Outcome Based Education (OBE)**

FIFTH SEMESTER

| S.No. | Course Component | Name of the Course | Instructional Hours | Credits | Examination Hours | Max. Marks | |
|-------|------------------|--|---------------------|-----------|-------------------|------------|-----|
| | | | | | | CIA | ESE |
| 1 | Part III | Core Paper IX – Cost Accounting | 6 | 4 | 3 | 40 | 60 |
| 2 | Part III | Core Paper X – Pratical Auditing | 6 | 4 | 3 | 40 | 60 |
| 3 | Part III | Core Paper XI – Income Tax Law, Theory & Practice | 6 | 4 | 3 | 40 | 60 |
| 4 | Part III | Core Paper XII – Business Law | 6 | 4 | 3 | 40 | 60 |
| 5 | Part III | Elective I – Corporate Goverance (open elective) | 5 | 5 | 3 | 40 | 60 |
| 6 | Part IV | Value Education | 1 | 2 | 3 | 40 | 60 |
| | | Total | 30 | 23 | | | |



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BACHELOR OF COMMERCE (Corporate Secretaryship)

Choice based credit system (CBCS) &

Outcome Based Education (OBE)

SIXTH SEMESTER

| S.No. | Course Component | Name of the Course | Instructional Hours | Credits | Examination Hours | Max. Marks | |
|-------|------------------|---|---------------------|-----------|-------------------|------------|-----|
| | | | | | | CIA | ESE |
| 1 | Part III | Core Paper XIII – Management Accounting | 6 | 4 | 3 | 40 | 60 |
| 2 | Part III | Core Paper XIV – Principles of Financial Management | 6 | 4 | 3 | 40 | 60 |
| 3 | Part III | Core Paper XV – Goods and Service Tax & Customs Law | 6 | 4 | 3 | 40 | 60 |
| 4 | Part III | Elective II – Entrepreneurial Development | 5 | 5 | 3 | 40 | 60 |
| 5 | Part III | Project - Institutional Training | 5 | 5 | 3 | 40 | 60 |
| 6 | Part IV | Extension Activity | 2 | 1 | 3 | 40 | 60 |
| | | Total | 30 | 23 | | | |

* Project Report – 50 Marks , Viva Voce – 50 Marks

DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE
(Autonomous)
Arumbakkam, Chennai – 600 106



DEPARTMENT OF COMPUTER APPLICATIONS
(B.C.A)
PROGRAMME CODE:07

OUTCOME BASED EDUCATION
(OBE)
SYLLABUS
(Choice Based Credit System)

Effective from the Academic year 2020 - 2021 onwards

PRINCIPAL
Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106.

Head
Department of Computer Application
Dwaraka Doss Goverdhan Doss
Vaishnav College (Shift II)
Arumbakkam, Chennai-600 106.

DEPARTMENT OF B.C.A

SCHEME OF I SEMESTER B.C.A PROGRAMME

| Sl. No | Course Category | Course Code | Course | Credit Distribution | | | | Over all Credits | Total Contact Hours /Week | Marks | | |
|--------------|---|--|---|---------------------|----------|----------|----------|------------------|---------------------------|------------|------------|------------|
| | | | | L | T | P | S | | | CIA | ESE | Total |
| 1 | PART I | 18-20/16101 | Language Paper- I | 4 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 2 | PART II | 18-20/99101 | English Paper- I | 4 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 3 | PART III Core Theory I | 18-20/07101 | Fundamentals of Digital Electronics | 4 | 1 | 0 | 0 | 4 | 5 | 40 | 60 | 100 |
| 4 | PART III Core Theory II | 18-20/07102 | Problem Solving Techniques | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 5 | PART III Core Practical I | 18-20/07104 | Digital Electronics Lab | 0 | 0 | 3 | 0 | 2 | 3 | 40 | 60 | 100 |
| 6 | Allied Paper I* | 18-20/08106 | Mathematical Foundation-I | 6 | 0 | 0 | 0 | 4 | 6 | 40 | 60 | 100 |
| 7 | PART IV Non-Major Elective- 1 | Basic Tamil 18-20/16102 Computer Fundamentals 2007103 | NON-MAJOR ELECTIVE a) Those who have studied Tamil up to XII Std. shall take either Computer Fundamentals or Advanced Tamil. b) Those who have not studied Tamil up to XII Std. and taken a Non-Tamil Language under Part-I shall take Tamil comprising of two course (level will be at 6 th Standard). | 2 | 0 | 0 | 0 | 2 | 2 | 40 | 60 | 100 |
| 8 | PART IV Soft Skills** | 18-20/40101 | Soft Skills-1 | 2 | 0 | 0 | 0 | 2 | 2 | 50 | 50 | 100 |
| Total | | | | 26 | 1 | 3 | 0 | 24 | 30 | 330 | 470 | 800 |

CIA-Continuous Internal Assessment

ESE-End Semester Examination

*Syllabus framed and approved by Mathematics Department

**Syllabus framed and approved by English Department

DEPARTMENT OF B.C.A

SCHEME OF II SEMESTER B.C.A PROGRAMME

| Sl. No. | Course Category | Course Code | Course | Credit Distribution | | | | Overall Credits | Total Contact Hours /Week | Marks | | |
|--------------|---|--|--|---------------------|----------|----------|----------|-----------------|---------------------------|------------|------------|------------|
| | | | | L | T | P | S | | | CIA | ESE | Total |
| 1 | PART I | 18-20/19202 | Language Paper- II | 4 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 2 | PART II | 18-20/99202 | English Paper- II | 4 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 3 | PART III Core Theory III | 18-20/07205 | C++ Programming | 4 | 1 | 0 | 0 | 4 | 5 | 40 | 60 | 100 |
| 4 | PART III Core Theory IV | 18-20/07206 | Microprocessor and its Applications | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 5 | PART III Core Practical II | 18-20/07208 | C++ Programming Lab | 0 | 0 | 3 | 0 | 2 | 3 | 40 | 60 | 100 |
| 5 | Allied Paper II* | 18-20/08213 | Mathematical Foundation-II | 6 | 0 | 0 | 0 | 4 | 6 | 40 | 60 | 100 |
| 7 | PART IV Non-Major Elective- 2 | Basic Tamil 18-20/16205 Intro to HTML 2007207 | NON-MAJOR ELECTIVE a) Those who have studied Tamil up to XII Std. shall take either Introduction to Html or Advanced Tamil. b) Those who have not studied Tamil up to XII Std. and taken a Non-Tamil Language under Part-I shall take Tamil comprising of two course (level will be at 6 th Standard). | 2 | 0 | 0 | 0 | 2 | 2 | 40 | 60 | 100 |
| 8 | PART IV Soft Skills** | 18-20/40201 | Soft Skills-2 | 2 | 0 | 0 | 0 | 2 | 2 | 50 | 50 | 100 |
| Total | | | | 26 | 1 | 3 | 0 | 24 | 30 | 330 | 470 | 800 |

CIA-Continuous Internal Assessment

ESE-End Semester Examination

*Syllabus framed and approved by Mathematics Department

**Syllabus framed and approved by English Department

DEPARTMENT OF B.C.A

SCHEME OF III SEMESTER B.C.A PROGRAMME

| Sl. No | Course Category | Course Code | Course | Credit Distribution | | | | Overall Credits | Total Contact Hours/Week | Marks | | |
|--------------|--|-----------------|--------------------------------|---------------------|----------|----------|----------|-----------------|--------------------------|------------|------------|------------|
| | | | | L | T | P | S | | | CIA | ESE | Total |
| 1 | PART III Core Theory V | 18-19/ 07309 | Java Programming | 4 | 1 | 0 | 0 | 4 | 5 | 40 | 60 | 100 |
| 2 | PART III Core Theory VI | 18-19/ 07310 | Data Structures | 4 | 1 | 0 | 0 | 4 | 5 | 40 | 60 | 100 |
| 3 | PART III Core Theory VII | 18-19/ 07311 | Graphics and Multimedia | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 4 | PART III Core Practical III | 18-19/ 07312 | Java Programming Lab | 0 | 0 | 4 | 0 | 3 | 4 | 40 | 60 | 100 |
| 5 | PART III Core Practical IV | 18-19/ 07313 | Data Structures using Java Lab | 0 | 0 | 4 | 0 | 3 | 4 | 40 | 60 | 100 |
| 6 | Allied paper III* | 18-19/ 05314 | Financial Accounting | 6 | 0 | 0 | 0 | 4 | 6 | 40 | 60 | 100 |
| 7 | PART IV Soft Skills** | 18-19/ 40301 | Soft Skills III | 2 | 0 | 0 | 0 | 2 | 2 | 50 | 50 | 100 |
| Total | | | | 20 | 2 | 8 | 0 | 24 | 30 | 290 | 410 | 700 |

CIA-Continuous Internal Assessment

ESE-End Semester Examination

*Syllabus framed and approved by Commerce Department

**Syllabus framed and approved by English Department

DEPARTMENT OF B.C.A

SCHEME OF IV SEMESTER B.C.A PROGRAMME

| Sl. No. | Course Category | Course Code | Course | Credit Distribution | | | | Overall Credits | Total Contact Hours /Week | Marks | | |
|--------------|---|-----------------|--|---------------------|----------|----------|----------|-----------------|---------------------------|------------|------------|------------|
| | | | | L | T | P | S | | | CIA | ESE | Total |
| 1. | PART III Core Theory VIII | 18-19/ 07414 | Python Programming | 4 | 1 | 0 | 0 | 4 | 5 | 40 | 60 | 100 |
| 2 | PART III Core Theory IX | 18-19/ 07415 | Operating Systems | 4 | 1 | 0 | 0 | 4 | 5 | 40 | 60 | 100 |
| 3 | PART III Core Theory X | 18-19/ 07416 | Software Engineering | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 4 | PART III Core Practical V | 18-19/ 07417 | Python Programming Lab | 0 | 0 | 4 | 0 | 3 | 4 | 40 | 60 | 100 |
| 5 | PART III Core Practical VI | 18-19/ 07418 | Operating System and Shell Programming Lab | 0 | 0 | 3 | 0 | 3 | 3 | 40 | 60 | 100 |
| 6 | Allied Paper IV* | 18-19/ 05420 | Cost and Management Accounting | 6 | 0 | 0 | 0 | 3 | 6 | 40 | 60 | 100 |
| 7 | PART IV Soft Skills** | 18-19/ 40401 | Soft Skills- IV | 2 | 0 | 0 | 0 | 2 | 2 | 50 | 50 | 100 |
| 8 | PART IV Environmental Studies | 18-19/ 13412 | Environmental Studies | 1 | 0 | 0 | 0 | 2 | 1 | 40 | 60 | 100 |
| Total | | | | 21 | 2 | 7 | 0 | 25 | 30 | 330 | 470 | 800 |

CIA-Continuous Internal Assessment

ESE-End Semester Examination

*Syllabus framed and approved by Commerce Department

**Syllabus framed and approved by English Department

DEPARTMENT OF B.C.A

SCHEME OF V SEMESTER B.C.A PROGRAMME

| Sl. No | Course Category | Course Code | Course | Credit Distribution | | | | Over all Credits | Total Contact Hours/Week | Marks | | |
|--------------|---|-------------|--|---------------------|----------|-----------|----------|------------------|--------------------------|------------|------------|------------|
| | | | | L | T | P | S | | | CIA | ESE | Total |
| 1 | PART III Core Theory XI | 1807519 | Dot Net Programming | 4 | 1 | 0 | 0 | 4 | 5 | 40 | 60 | 100 |
| 2 | PART III Core Theory XII | 1807520 | Database Management System | 4 | 1 | 0 | 0 | 4 | 5 | 40 | 60 | 100 |
| 3 | PART III Core Theory XIII | 1807521 | Computer Networks | 5 | 0 | 0 | 0 | 4 | 5 | 40 | 60 | 100 |
| 4 | PART III Core Theory XIV | 1807522 | ELECTIVE I (DISCIPLINE SPECIFIC ELECTIVE): Data Mining (or) Artificial Intelligence and Expert Systems (or) Object Oriented Analysis and Design | 5 | 0 | 0 | 0 | 4 | 5 | 40 | 60 | 100 |
| 5 | PART III Core Practical VII | 1807523 | Dot Net Programming Lab | 0 | 0 | 5 | 0 | 3 | 5 | 40 | 60 | 100 |
| 6 | PART III Core Practical VIII | 1807524 | RDBMS Lab using ORACLE | 0 | 0 | 5 | 0 | 3 | 5 | 40 | 60 | 100 |
| 7 | PART IV | 1870501 | Value Education | 0 | 0 | 0 | 0 | 1 | - | - | - | - |
| Total | | | | 18 | 2 | 10 | 0 | 23 | 30 | 240 | 360 | 600 |

CIA-Continuous Internal Assessment

ESE-End Semester Examination

DEPARTMENT OF B.C.A

SCHEME OF VI SEMESTER B.C.A PROGRAMME

| Sl. No. | Course Category | Course Code | Course | Credit Distribution | | | | Overall Credits | Total Contact Hours /Week | Marks | | |
|--------------|--|-------------|--|---------------------|----------|-----------|----------|-----------------|---------------------------|------------|------------|------------|
| | | | | L | T | P | S | | | CIA | ESE | Total |
| 1 | PART III Core Theory XV | 1807625 | PHP Programming | 4 | 1 | 0 | 0 | 4 | 5 | 40 | 60 | 100 |
| 2 | PART III Core Theory XVI | 1807626 | Mobile Application Development | 4 | 1 | 0 | 0 | 4 | 5 | 40 | 60 | 100 |
| 3 | PART III Core Theory XVII | 1807627 | Design and Analysis of Algorithms | 5 | 0 | 0 | 0 | 4 | 5 | 40 | 60 | 100 |
| 4 | PART III Core Theory XVIII | 1807628 | ELECTIVE II (DISCIPLINE SPECIFIC ELECTIVE): Operations Research (or) Ecommerce(or) Cryptography | 5 | 0 | 0 | 0 | 4 | 5 | 40 | 60 | 100 |
| 5 | PART III Core Practical IX | 1807629 | PHP Programming Lab | 0 | 0 | 5 | 0 | 3 | 5 | 40 | 60 | 100 |
| 6 | PART III Core Practical X | 1807630 | Mobile Application Development Lab | 0 | 0 | 5 | 0 | 3 | 5 | 40 | 60 | 100 |
| 7 | PART IV Extension Activities | 1880601 | Extension Activities | 0 | 0 | 0 | 0 | 1 | - | - | - | - |
| Total | | | | 18 | 2 | 10 | 0 | 23 | 30 | 240 | 360 | 600 |

CIA-Continuous Internal Assessment

ESE-End Semester Examination

**DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE
(AUTONOMOUS)
Arumbakkam, Chennai - 600 106.**



**POST GRADUATE & RESEARCH
DEPARTMENT OF MATHEMATICS
(B Sc Mathematics)
Programme Code: 08**

**Academic Year 2020-2021
SYLLABUS
(Choice Based Credit System)
OUTCOME BASED EDUCATION
FOR STUDENTS ADMITTED FROM 2019-2020 ONWARDS**

PRINCIPAL
Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106.

R. VENKATARAMANAN M.Sc., M.Phil.,
ASSOCIATE PROFESSOR AND HEAD
P.G. AND RESEARCH DEPT OF MATHEMATICS
DWARAKADOSS GOVERDHAN DOSS
VAISHNAV COLLEGE
CHENNAI - 600 106

DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE
(AUTONOMOUS)
CHENNAI – 600 106
Program Name: B.Sc. Mathematics

Curriculum and Scheme of Examination under CBCS
(Applicable to the students admitted during the Academic Year 2019-2020 Onwards)

| Semester | Title of the Paper | Instruction hours/cycle | Examination Marks | | | Duration of Exam (Hours) | Credits |
|----------|---|-------------------------|-------------------|-----|-------|--------------------------|---------|
| | | | CIA | ESE | TOTAL | | |
| I | Language – I | 4 | 40 | 60 | 100 | 3 | 3 |
| | English - I | 4 | 40 | 60 | 100 | 3 | 3 |
| | Core Paper I Classical Algebra | 4 | 40 | 60 | 100 | 3 | 4 |
| | Core Paper II Differential Calculus | 5 | 40 | 60 | 100 | 3 | 4 |
| | Allied – I Physics I / Financial Accounting | 9 | 40 | 60 | 100 | 3 | 5 |
| | Soft Skills I | 2 | 50 | 50 | 100 | 3 | 3 |
| | Non Major Elective-I / Basic Tamil-I | 2 | 40 | 60 | 100 | 3 | 2 |
| | Total | 30 | - | - | 700 | - | 24 |
| II | Language – II | 4 | 40 | 60 | 100 | 3 | 3 |
| | English - II | 4 | 40 | 60 | 100 | 3 | 3 |
| | Core Paper III Trigonometry | 4 | 40 | 60 | 100 | 3 | 4 |
| | Core Paper IV Integral Calculus | 5 | 40 | 60 | 100 | 3 | 4 |
| | Allied – II Physics II / Cost and Management Accounting | 6 | 40 | 60 | 100 | 3 | 3/5 |
| | Allied Physics Practical | 3 | 40 | 60 | 100 | 3 | 2 |
| | Soft Skills II | 2 | 50 | 50 | 100 | 3 | 3 |
| | Non Major Elective-II / Basic Tamil-II | 2 | 40 | 60 | 100 | 3 | 2 |
| | Total | 30 | - | - | 800 | - | 24 |

| | | | | | | | |
|-----|---|----|----|----|-----|---|-----|
| III | Language – III | 6 | 40 | 60 | 100 | 3 | 3 |
| | English – IV | 4 | 40 | 60 | 100 | 3 | 3 |
| | Core Paper V Differential Equations | 4 | 40 | 60 | 100 | 3 | 4 |
| | Core Paper VI Mathematical Statistics | 5 | 40 | 60 | 100 | 3 | 4 |
| | Allied – III Chemistry I/ Numerical Methods I | 9 | 40 | 60 | 100 | 3 | 5 |
| | Soft Skills III | 2 | 50 | 50 | 100 | 3 | 3 |
| | Total | 30 | - | - | 600 | - | 22 |
| IV | Language – IV | 6 | 40 | 60 | 100 | 3 | 3 |
| | English – V | 4 | 40 | 60 | 100 | 3 | 3 |
| | Core Paper VII Vector Calculus, Analytical Geometry of Three Dimensions | 4 | 40 | 60 | 100 | 3 | 4 |
| | Core Paper VIII Transforms and Fourier Series | 4 | 40 | 60 | 100 | 3 | 4 |
| | Allied – IV Chemistry II / Numerical Methods II | 5 | 40 | 60 | 100 | 3 | 3/5 |
| | Allied Chemistry Practical | 3 | 40 | 60 | 100 | 3 | 2/- |
| | Soft Skills IV | 2 | 50 | 50 | 100 | 3 | 3 |
| | Environmental Science | 2 | 40 | 60 | 100 | 3 | 2 |
| | Total | 30 | - | - | 800 | - | 24 |
| | Core Paper IX Algebraic | 6 | 40 | 60 | 100 | 3 | 4 |

| | | | | | | | |
|----|---|-----|----|----|------|---|-----|
| V | Structures | | | | | | |
| | Core Paper X Real Analysis I | 6 | 40 | 60 | 100 | 3 | 4 |
| | Core Paper XI Complex Analysis I | 6 | 40 | 60 | 100 | 3 | 4 |
| | Elective I Discrete Mathematics | 5 | 40 | 60 | 100 | 3 | 5 |
| | Elective II Operations Research I | 5 | 40 | 60 | 100 | 3 | 5 |
| | Value Education | 2 | 40 | 60 | 100 | 3 | 2 |
| | Total | 30 | - | - | 600 | - | 24 |
| VI | Core Paper XIV Linear Algebra | 6 | 40 | 60 | 100 | 3 | 4 |
| | Core Paper XV Real Analysis II | 6 | 40 | 60 | 100 | 3 | 4 |
| | Core Paper XVI Complex Analysis II | 6 | 40 | 60 | 100 | 3 | 4 |
| | Core Paper XVII Mechanics | 6 | 40 | 60 | 100 | 3 | 4 |
| | Elective III Operations Research II | 5 | 40 | 60 | 100 | 3 | 5 |
| | Extension Activity | 1 | 40 | 60 | 100 | 3 | 1 |
| | Total | 30 | - | - | 600 | - | 22 |
| | Grand Total | 180 | - | - | 4100 | - | 140 |



**DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE
(Autonomous)**

**College with Potential for Excellence, Linguistic Minority
Institution Affiliated to University of Madras
Arumbakkam, Chennai 600 106**


Department of Physics (Shift I)


B.Sc. Physics -Programme Code: 09

Outcome Based Education Syllabus

Academic Year 2020–2021

CHOICE BASED CREDIT SYSTEM (CBCS)


**Associate Professor & Head
Department of Physics
Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai-600 106.**


**PRINCIPAL
Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106.**



DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE

(Autonomous)

College with Potential for Excellence, Linguistic Minority Institution

Affiliated to University of Madras

Arumbakkam

DEPARTMENT OF PHYSICS

COURSE STRUCTURE

Scheme of First Semester

| S.No. | Course Components | Subjects | Inst. Hrs | Credits | Exam Hrs | Max. Marks | | |
|-------|-------------------|---|-----------|---|----------|------------|------------|-------|
| | | | | | | Ext. Marks | Int. Marks | Total |
| 1 | PART I | Language Paper I | 4 | 3 | 3 | 60 | 40 | 100 |
| 2 | PART II | English Paper I | 4 | 3 | 3 | 60 | 40 | 100 |
| 3 | PART III | Core Paper I Mechanics and Properties of Matter | 6 | 5 | 3 | 60 | 40 | 100 |
| | | Core Practical I | 3 | Practical examination at the end of Semester II | | | | |
| 4 | | Allied Mathematics I | 9 | 5 | 3 | 60 | 40 | 100 |
| 5 | Part IV | Non-Major Elective NME / Basic Tamil | 2 | 2 | 3 | 60 | 40 | 100 |
| 6 | | Soft Skill I | 2 | 2 | 3 | 60 | 40 | 100 |
| | Total | | 30 | 20 | | 360 | 240 | 600 |


Associate Professor & Head
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Vaishnav College
Arumbakkam, Chennai-600 106.


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DEPARTMENT OF PHYSICS

COURSE STRUCTURE

Scheme of Second Semester

| S.No. | Course Components | Subjects | Inst. Hrs | Credits | Exam Hrs | Max. Marks | | |
|-------|-------------------|--|-----------|---------|----------|------------|------------|-------|
| | | | | | | Ext. Marks | Int. Marks | Total |
| 1 | PART I | Language Paper II | 4 | 3 | 3 | 60 | 40 | 100 |
| 2 | PART II | English Paper II | 4 | 3 | 3 | 60 | 40 | 100 |
| 3 | PART III | Core Paper II Thermal Physics and Acoustics | 6 | 5 | 3 | 60 | 40 | 100 |
| | | Core Practical I | 3 | 4 | 3 | 60 | 40 | 100 |
| 4 | | Allied Mathematics II | 9 | 5 | 3 | 60 | 40 | 100 |
| 5 | Part IV | Non-Major Elective/ Basic Tamil | 2 | 2 | 3 | 60 | 40 | 100 |
| 6 | | Soft Skill II | 2 | 2 | 3 | 60 | 40 | 100 |
| | Total | | 30 | 24 | | 420 | 280 | 700 |


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DEPARTMENT OF PHYSICS

COURSE STRUCTURE

Scheme of Third Semester

| S.No. | Course Components | Subjects | Inst. Hrs | Credits | Exam Hrs | Max. Marks | | |
|-------|-------------------|---------------------------------|---------------------------|---|---|---|------------|-------|
| | | | | | | Ext. Marks | Int. Marks | Total |
| 1 | PART I | Language Paper III | 6 | 3 | 3 | 60 | 40 | 100 |
| 2 | PART II | English Paper III | 4 | 3 | 3 | 60 | 40 | 100 |
| 3 | PART III | Core Paper III Optics | 6 | 5 | 3 | 60 | 40 | 100 |
| | | Core Practical II | 3 | | | Practical examination at the end of Semester IV | | |
| 4 | | Allied Chemistry I | 6 | 5 | 3 | 60 | 40 | 100 |
| 5 | | Allied Chemistry Practicals | 3 | Practical examination at the end of Even Semester | | | | |
| 6 | | Part IV | Environmental Studies EVS | 2 | Examination at the end of Even Semester | | | |
| 7 | Soft Skill III | | 2 | 2 | 3 | 60 | 40 | 100 |
| | Total | | 30 | 18 | | 300 | 200 | 500 |


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DEPARTMENT OF PHYSICS

COURSE STRUCTURE

Scheme of Fourth Semester

| S.No. | Course Components | Subjects | Inst. Hrs | Credits | Exam Hrs | Max. Marks | | |
|-------|-------------------|---|-----------|---------|----------|------------|------------|-------|
| | | | | | | Ext. Marks | Int. Marks | Total |
| 1 | PART I | Language Paper IV | 6 | 3 | 3 | 60 | 40 | 100 |
| 2 | PART II | English Paper IV | 4 | 3 | 3 | 60 | 40 | 100 |
| 3 | PART III | Core Paper IV Atomic Physics | 6 | 5 | 3 | 60 | 40 | 100 |
| | | Core Practical II | 3 | 4 | 3 | 60 | 40 | 100 |
| 4 | | Allied Chemistry II | 6 | 5 | 3 | 60 | 40 | 100 |
| 5 | | Allied chemistry Practicals | 3 | 5 | 3 | 60 | 40 | 100 |
| 6 | Part IV | Environmental Studies EVS | 2 | 2 | 3 | 60 | 40 | 100 |
| 7 | | Soft Skill III | 2 | 2 | 3 | 60 | 40 | 100 |
| | Total | | 30 | 29 | | 480 | 320 | 800 |


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DEPARTMENT OF PHYSICS

Scheme of Fifth Semester

| S.No. | Course Components | Subjects | Inst. Hrs | Credits | Exam Hrs | Max. Marks | | | |
|-------|-------------------|--|-----------------|---|----------|------------|------------|-------|-----|
| | | | | | | Ext. Marks | Int. Marks | Total | |
| 1 | PART III | Core Paper V Electricity and Electromagnetism | 5 | 5 | 3 | 60 | 40 | 100 | |
| 2 | | Core Paper VI Mathematical methods in Physics | 5 | 5 | 3 | 60 | 40 | 100 | |
| 3 | | Core Paper VII Solid State Physics | 4 | 5 | 3 | 60 | 40 | 100 | |
| 4 | | Core Paper VIII Basic Electronics | 4 | 5 | 3 | 60 | 40 | 100 | |
| 5 | | Elective I a. Applied Electronics or b. Problem Solving in Physics or c. Numerical Methods | 4 | 4 | 3 | 60 | 40 | 100 | |
| 6 | | Core Practical III | 3 | Practical examination at the end of Semester VI | | | | | |
| 7 | | Core Practical IV | 3 | | | | | | |
| 8 | | Core Practical V | 2 | | | | | | |
| 9 | | PART IV | Value Education | - | 2 | | | | 100 |
| | Total | | 30 | 26 | | | | 600 | |


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DEPARTMENT OF PHYSICS

COURSE STRUCTURE

Scheme of Sixth Semester

| S.No. | Course Components | Subjects | Inst. Hrs | Credits | Exam Hrs | Max. Marks | | |
|-------|-------------------|---|----------------------|---------|----------|------------|------------|-------|
| | | | | | | Ext. Marks | Int. Marks | Total |
| 1 | PART III | Core Paper IX Relativity and Quantum Mechanics | 6 | 5 | 3 | 60 | 40 | 100 |
| 2 | | Core Paper X Nuclear and Particle Physics | 6 | 5 | 3 | 60 | 40 | 100 |
| 3 | | Elective II a. Digital Electronics or b. Medical Physics or c. Geo Physics | 5 | 4 | 3 | 60 | 40 | 100 |
| 4 | | Elective III a. Microprocessor Fundamentals or b. Astrophysics or c. Fiber Optics or d. Weather Forecasting | 5 | 4 | 3 | 60 | 40 | 100 |
| 6 | | Core Practical III | 3 | 4 | 3 | 60 | 40 | 100 |
| 7 | | Core Practical IV | 3 | 4 | 3 | 60 | 40 | 100 |
| 8 | | Core Practical V | 2 | 3 | 3 | 60 | 40 | 100 |
| 9 | | PART IV | Extension activities | - | 1 | | | |
| | Total | | 30 | 30 | | 480 | 220 | 700 |


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DEPARTMENT OF PHYSICS

COURSE STRUCTURE

ALLIED PHYSICS

| S.No. | Semester | Subjects | Inst. Hrs | Credits | Exam Hrs | Max. Marks | | |
|-------|---------------|---------------------------|-----------|---|----------|------------|------------|-------|
| | | | | | | Ext. Marks | Int. Marks | Total |
| 1 | Odd Semester | Allied Physics I | 6 | 5 | 3 | 60 | 40 | 100 |
| 2 | | Allied Practicals | 3 | Practical Examination at the end of Even semester | | | | |
| 3 | Even Semester | Allied Physics II | 5 | 5 | 3 | 60 | 40 | 100 |
| 4 | | Allied Physics Practicals | 3 | 4 | 3 | 60 | 40 | 100 |


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College with Potential for Excellence
Linguistic Minority Institution Affiliated to University of Madras
Arumbakkam, Chennai – 600106

POST GRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY

CHOICE BASED CREDIT SYSTEM (CBCS)

OUTCOME BASED EDUCATION (OBE) SYLLABUS

B.Sc. CHEMISTRY

Programme Code:10

Academic year 2020 – 2021

Dr. K. Premalatha

Associate Professor and Head

PRINCIPAL
Dwaraka Doss Goverdhan Doss
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SCHEME OF I YEAR B.SC. CHEMISTRY PROGRAM

| SEM | PART | TITLE OF THE PAPER | INSTRUCTION HOURS/WEEK | DURATION OF EXAM | MAX. MARKS | | | CREDITS |
|--------------------|------|--|------------------------|------------------|------------|-----|-------|-----------|
| | | | | | CIA | ESE | TOTAL | |
| SEMESTER-I | | | | | | | | |
| I | I | Language Paper –I | 6 | 3 | 40 | 60 | 100 | 3 |
| | II | English Paper –I | 6 | 3 | 40 | 60 | 100 | 3 |
| | III | Core Paper - General Chemistry-I | 6 | 3 | 40 | 60 | 100 | 5 |
| | III | Mathematics –I | 9 | 3 | 40 | 60 | 100 | 5 |
| | V | NME- I Detection of Adulterants in food-Practical I | 2 | 3 | 40 | 60 | 100 | 2 |
| | V | Soft skill I | 6 | 3 | 40 | 60 | 100 | 3 |
| | | TOTAL CREDITS | | | | | | 21 |
| SEMESTER-II | | | | | | | | |
| II | I | Language Paper –II | 6 | 3 | 40 | 60 | 100 | 3 |
| | II | English Paper –II | 6 | 3 | 40 | 60 | 100 | 3 |
| | III | Core Paper –II General Chemistry-II | 6 | 3 | 40 | 60 | 100 | 5 |
| | III* | Core Paper– III Qualitative Inorganic Mixture Analysis - Practical I | 3 | 3 | 40 | 60 | 100 | 4 |
| | III | Mathematics –II | 9 | 3 | 40 | 60 | 100 | 5 |
| | V | NME – II Significance of chemistry in everyday life-Practical II | 2 | 3 | 40 | 60 | 100 | 2 |
| | V | Soft skill II | | 3 | 40 | 60 | 100 | 3 |
| | | TOTAL CREDITS | | | | | | 25 |

* Examination will be conducted at the end of the Semester

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SCHEME OF II YEAR B.Sc. CHEMISTRY PROGRAM

| SEM | PART | TITLE OF THE PAPER | INSTRUCTION HOURS/WEEK | DURATION OF EXAM | MAX. MARKS | | | CREDITS |
|---------------------|-------|---|------------------------|------------------|------------|-----|-------|-----------|
| | | | | | CIA | ESE | TOTAL | |
| SEMESTER-III | | | | | | | | |
| III | I | Language III | 6 | 3 | 40 | 60 | 100 | 3 |
| | II | English III | 6 | 3 | 40 | 60 | 100 | 3 |
| | III | Core Paper IV General Chemistry III | 6 | 3 | 40 | 60 | 100 | 5 |
| | III | Allied Paper -Chemistry- I (for Mathematics and Physics- Major) | 5 | 3 | 40 | 60 | 100 | 5 |
| | III | Allied Paper -Chemistry- I (for Botany- Major) | 5 | 3 | 40 | 60 | 100 | 5 |
| | V | Environmental Studies | | 3 | 40 | 60 | 100 | -- |
| | V | Soft Skill | | 3 | 40 | 60 | 100 | 3 |
| | | TOTAL CREDITS | | | | | | 24 |
| SEMESTER-IV | | | | | | | | |
| IV | I | Language Paper IV | 6 | 3 | 40 | 60 | 100 | 3 |
| | II | English Paper IV | 6 | 3 | 40 | 60 | 100 | 3 |
| | III | Core Paper V General Chemistry IV | 6 | 3 | 40 | 60 | 100 | 5 |
| | III * | Core Paper VI Volumetric Analysis and Inorganic preparations- Practical II | 3 | 3 | 40 | 60 | 100 | 4 |
| | | Summer Internship | | | | | | 2 |
| | III | Allied Paper -Chemistry- II (for Mathematics and Physics- Major) | 5 | 3 | 40 | 60 | 100 | 5 |
| | III | Allied Paper -Chemistry- II (for Botany- Major) | 5 | 3 | 40 | 60 | 100 | 5 |
| | III | Practical-Allied Chemistry (for Mathematics, Physics and Botany- Major) | 3 | 3 | 40 | 60 | 100 | 4 |
| | V | Environmental Studies | | 3 | 40 | 60 | 100 | 2 |
| | V | Soft skill | | 3 | 40 | 60 | 100 | 3 |
| | | TOTAL CREDITS | | | | | | 36 |

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SCHEME OF III YEAR B.Sc. CHEMISTRY PROGRAM

| SEM | PART | TITLE OF THE PAPER | INSTRUCTION HOURS/WEEK | DURATION OF EXAM | MAX. MARKS | | | CREDITS |
|--------------------|------|--|------------------------|------------------|------------|-----|-------|---------|
| | | | | | CIA | ESE | TOTAL | |
| SEMESTER-V | | | | | | | | |
| V | III | Core Paper VII Organic Chemistry I | 5 | 3 | 40 | 60 | 100 | 4 |
| | III | Core Paper VIII Inorganic Chemistry I | 5 | 3 | 40 | 60 | 100 | 4 |
| | III | Core Paper IX Physical Chemistry I | 5 | 3 | 40 | 60 | 100 | 4 |
| | III | Elective Paper I –Analytical Chemistry OR Pharmaceutical Chemistry | 4 | 3 | 40 | 60 | 100 | 5 |
| | IV | Value Education | | 3 | 40 | 60 | 100 | 2 |
| | | TOTAL CREDITS | | | | | | 19 |
| SEMESTER-VI | | | | | | | | |
| | III | Core Paper X Organic Chemistry II | 5 | 3 | 40 | 60 | 100 | 4 |
| | III | Core Paper XI Inorganic Chemistry II | 5 | 3 | 40 | 60 | 100 | 4 |
| | III | Core Paper XII Physical Chemistry II | 5 | 3 | 40 | 60 | 100 | 4 |
| | III | Elective Paper II –Applied Chemistry OR Industrial Chemistry | 4 | 3 | 40 | 60 | 100 | 5 |
| | III | Elective III – Physical chemistry practical (OR) Polymer chemistry | | | | | | |
| | III* | Elective IV - Gravimetric Analysis and Inorganic complex Preparation-Practical IV | 5 | 6 | 40 | 60 | 100 | 5 |

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| | | | | | | | |
|-----|--|---|---|----|----|-----|-----------|
| III | Elective Paper V- Organic Analysis and preparation- Practical V | 3 | 3 | 40 | 60 | 100 | 5 |
| III | Skill Enhancement Course Analytical Chemistry Practical | 5 | 3 | 40 | 60 | 100 | 5 |
| III | Seminar (Internal) | | | | | | 02 |
| III | Open elective paper- Chemistry in everyday life (OR) Food additive chemistry and five basic senses (OR) Food chemistry | | | | | | |
| | Extension activities | | | | | | |
| | TOTAL CREDITS | | | | | | 33 |

* Student should select three Elective subjects such that one elective subject in Fifth semester and two elective subjects in the sixth semester. (The elective papers are: Analytical Chemistry, Pharmaceutical Chemistry, Applied Chemistry, Industrial Chemistry, and Polymer Chemistry)

* Examination will be conducted at the end of the Semester

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**DWARAKA DOSS GOVERDHAN DOSS VAISHNAV
COLLEGE**



Department of Biochemistry
Outcome Based Education (OBE) &
Choice Based credit system

Programme & Programme Code
B.SC Biochemistry (11)

Applicable for students admitted from the academic year 2020-2021 onwards

PRINCIPAL
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Arumbakkam, Chennai - 600106.

Head
Department of Biochemistry
Dwaraka Doss Goverdhan Doss
Vaishnav College (Shift II)
Arumbakkam, Chennai 600 190.

SCHEME OF SEMESTER B.SC., PROGRAM

B.Sc I SEMESTER

| Part | Course Category | Course | Credit Distribution | | | | Overall Credits | Total Contact hours / week | Marks | | |
|--------------|------------------|---------------------------------|---------------------|---|---|---|-----------------|----------------------------|------------|------------|------------|
| | | | L | T | P | S | | | CIA | ESE | Total |
| Part -I | Language | Language –I | 4 | 0 | 0 | 0 | 3 | 5 | 40 | 60 | 100 |
| Part -II | English | English –I | 4 | 0 | 0 | 0 | 3 | 5 | 40 | 60 | 100 |
| Part III | Core | Nutritional Biochemistry | 3 | 0 | 1 | 0 | 4 | 5 | 40 | 60 | 100 |
| | Allied | Chemistry- I | 3 | 1 | 0 | 0 | 4 | 6 | 40 | 60 | 100 |
| | Major Practical | Major practical –I | 0 | 1 | 3 | 0 | - | 3 | - | - | - |
| | Allied Practical | Chemistry Practical –I | 0 | 1 | 3 | 0 | - | 3 | - | - | - |
| Part IV | NME | Basics of Medical Terminologies | 4 | 0 | 0 | 0 | 2 | 2 | 40 | 60 | 100 |
| | | Soft Skills – I | | | | | 3 | 1 | 50 | 50 | 100 |
| Total | | | | | | | 19 | 30 | 250 | 350 | 600 |

II SEMESTER

| Part | Course Category | Course | Credit Distribution | | | | Overall Credits | Total Contact hours / week | Marks | | |
|--------------|--------------------|--|---------------------|---|---|---|-----------------|----------------------------|------------|------------|------------|
| | | | L | T | P | S | | | CIA | ESE | Total |
| Part I | Language | Language –II | 4 | 0 | 0 | 0 | 3 | 5 | 40 | 60 | 100 |
| Part II | English | English –II | 4 | 0 | 0 | 0 | 3 | 5 | 40 | 60 | 100 |
| Part III | Core paper -II | Cell Biology | 3 | 0 | 1 | 0 | 4 | 6 | 40 | 60 | 100 |
| | Core practical | Major practical –I | 0 | 1 | 3 | 0 | 4 | 3 | 40 | 60 | 100 |
| | Allied II | Chemistry II | 4 | 0 | 0 | 0 | 3 | 5 | 40 | 60 | 100 |
| | Allied practical I | Chemistry Practical –I | 0 | 1 | 3 | 0 | 3 | 3 | 40 | 60 | 100 |
| Part IV | NME II | Plant Bioactive compounds in traditional medicine/ | 2 | 0 | 0 | 0 | 2 | 2 | 40 | 60 | 100 |
| | NME II | Prevention and management of lifestyle disorders | 2 | 0 | 0 | 0 | 2 | 2 | 40 | 60 | 100 |
| | | Soft Skills – II | | | | | 3 | 1 | 50 | 50 | 100 |
| Total | | | | | | | 25 | 32 | 330 | 470 | 800 |

III SEMESTER

| | Course category | Course | Credit Distribution | | | | Over all Credits | Total Contact Hours/Week | Marks | | |
|------------------|------------------------------|-----------------------------|---------------------|---|---|---|------------------|--------------------------|------------|------------|------------|
| | | | L | T | P | S | | | CIE | ESE | Total |
| Part I | Language | Language –III | 4 | 0 | 0 | 0 | 3 | 5 | 40 | 60 | 100 |
| Part II | English | English –III | 3 | 1 | 0 | 0 | 3 | 5 | 40 | 60 | 100 |
| Part III | Core paper/skill Enhancement | Chemistry of Biomolecules | 3 | 0 | 1 | 0 | 4 | 6 | 40 | 60 | 100 |
| | Allied –II | Microbiology – I | 3 | 0 | 0 | 1 | 4 | 6 | 40 | 60 | 100 |
| | Major | Major practical –II | 0 | 0 | 3 | 1 | - | 3 | - | - | - |
| | Allied-practical II | Microbiology Practical – II | 0 | 1 | 3 | 0 | - | 3 | - | - | - |
| Part - IV | | Soft Skills – III | 2 | 0 | 0 | 0 | 3 | 1 | 50 | 50 | 100 |
| | | EVS | | | | | 2 | 1 | | | |
| Total | | | | | | | 17 | 30 | 210 | 290 | 500 |

BSC IV SEMESTER

| Sl. NO | Course category | Course | Credit Distribution | | | | Over all Credits | Total Contact Hours /Week | Marks | | |
|-----------------|------------------------------------|------------------------|---------------------|---|---|---|------------------|---------------------------|------------|------------|------------|
| | | | L | T | P | S | | | CIE | SEE | Total |
| Part I | Language | Language –IV | 4 | 0 | 0 | 0 | 3 | 5 | 40 | 60 | 100 |
| Part II | English | English –IV | 3 | 1 | 0 | 0 | 3 | 5 | 40 | 60 | 100 |
| Part III | core paper - IV/ skill Enhancement | Biochemical Techniques | 4 | 0 | 0 | 0 | 4 | 6 | 40 | 60 | 100 |
| | core practical | Major practical –II | 0 | 0 | 3 | 0 | 4 | 3 | 40 | 60 | 100 |
| | Allied-II | Microbiology – II | 4 | 0 | 0 | 0 | 3 | 6 | 40 | 60 | 100 |
| | Allied practical -II | Microbiology Practical | 0 | 1 | 3 | 0 | 3 | 3 | 40 | 60 | 100 |
| Part IV | | Soft Skills – II | 2 | 0 | 0 | 0 | 3 | 1 | 50 | 50 | 100 |
| | | EVS | | | | | 2 | 1 | 40 | 60 | 100 |
| Total | | | | | | | 25 | 30 | 330 | 470 | 800 |

BSC V SEMESTER

| | Course category | Course | Credit Distribution | | | | Over all Credits | Total Contact Hours/Week | Marks | | |
|-----------------|------------------|--|---------------------|---|---|---|------------------|--------------------------|------------|------------|------------|
| | | | L | T | P | S | | | CIE | ESE | Total |
| Part III | Core paper - V | Enzymes | 3 | 0 | 1 | 0 | 4 | 5 | 40 | 60 | 100 |
| | Core paper- VI | Intermediary Metabolism | 3 | 1 | 0 | 0 | 4 | 5 | 40 | 60 | 100 |
| | Core paper VII | Human Physiology | 4 | 0 | 0 | 0 | 4 | 5 | 40 | 60 | 100 |
| | Core paper- VIII | Molecular Biology | 3 | 0 | 1 | 0 | 4 | 5 | 40 | 60 | 100 |
| | Elective paper-I | Principles of Biotechnology / Basic MLT / Genetics | 4 | 0 | 0 | 0 | 5 | 4 | 40 | 60 | 100 |
| | core Practical | Major Practical – III | 0 | 0 | 4 | 0 | | 3 | | | |
| | core Practical | Major Practical – IV | 0 | 0 | 4 | 0 | | 3 | | | |
| Part IV | | | Value education | | | | 2 | 2 | 40 | 60 | 100 |
| Total | | | | | | | 23 | 32 | 240 | 360 | 600 |

BSC VI SEMESTER

| | Course category | Course | Credit Distribution | | | | Over all Credits | Total Contact Hours/ Week | Marks | | |
|-----------------|--------------------|---|---------------------|---|---|---|------------------|---------------------------|------------|------------|------------|
| | | | L | T | P | S | | | CIE | ESE | Total |
| Part III | Core paper-IX | Bioinformatics | 3 | 0 | 1 | 0 | 4 | 5 | 40 | 60 | 100 |
| | Core paper-X | Immunology | 4 | 0 | 0 | 0 | 4 | 5 | 40 | 60 | 100 |
| | Core paper-XI | Clinical Biochemistry | 4 | 0 | 0 | 0 | 4 | 5 | 40 | 60 | 100 |
| | Elective paper-II | Pharmaceutical Biochemistry / IPR / Plant Physiology & Biochemistry | 4 | 0 | 0 | 0 | 5 | 4 | 40 | 60 | 100 |
| | Elective paper-III | Entrepreneurship in science & Technology/ First Aid / Therapeutic Nutrition | 3 | 1 | 0 | 0 | 5 | 4 | 40 | 60 | 100 |
| | core Practical | Major Practical – III | 0 | 0 | 4 | 0 | 4 | 3 | 40 | 60 | 100 |
| | core Practical | Major Practical – IV | 0 | 0 | 4 | 0 | 4 | 3 | 40 | 60 | 100 |
| | Part V | | Extension activity | | | | | 1 | | | |
| Total | | | | | | | 31 | 29 | 280 | 420 | 700 |

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COLLEGE**

(Autonomous)

“College with Potential for Excellence”

(Linguistic Minority Institution),

**“Gokulbagh” 833, Periyar E.V.R. Salai,
Arumbakkam, Chennai – 106**



Syllabus

B.Sc., Biotechnology (2020-2021)

CHOICE BASED CREDIT SYSTEM

OUTCOME BASED EDUCATION (OBE)

PROGRAMME CODE: 012

**UNDER GRADUATE – DEPARTMENT OF
BIOTECHNOLOGY**

(Applicable for students admitted for the academic year 2020-21)

M.D. Balakrishnan

Head
Department of Biotechnology
Dwaraka Doss Goverdhan Doss
Vaishnav College (Shift II)
Arumbakkam, Chennai-600 106.

B. Doss

PRINCIPAL
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Vaishnav College
Arumbakkam, Chennai - 600106.

DEPARTMENT OF BIOTECHNOLOGY
SCHEME OF I SEMESTER BSc PROGRAM

| S I. N O | Course Categor y | Course | Hour Distribution | | | | Over all Credits | Total Cont act Hour s/We ek | Marks | | |
|-------------------|------------------------|--|----------------------|---|---|---|------------------------|--|------------|------------|------------|
| | | | L | T | P | S | | | CI A | ES E | Tota l |
| 1 | Part I | Language/ Tamil Paper 1 | 4 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 2 | Part II | English Paper 1 | 4 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 3 | Part III | Core Paper 1: Cell biology | 6 | 0 | 0 | 0 | 4 | 6 | 40 | 60 | 100 |
| 4 | Part III | Allied Paper 1: Microbiology | 6 | 0 | 0 | 0 | 3 | 6 | 40 | 60 | 100 |
| 5 | Part III | Core: Practical I: * Cell biology | 0 | 0 | 3 | 0 | 3 | 3 | 40 | 60 | 100 |
| 6 | Part III | Allied: Practical I* Microbiology | 0 | 0 | 3 | 0 | 2 | 3 | 40 | 60 | 100 |
| 7 | Part IV | 1.a. Those who have not studied Tamil upto XII std and taken a non- tamil language under Part – I shall take Tamil comprising of two courses (level will be at 6 th std). b. Those who have studied Tamil upto XII std and taken a non- Tamil language under Part- I shall take Advanced Tamil comprising of two courses. c. Others who do not come under a+b can choose non-major elective comprising of two courses. Nonmajor elective 1- Biotechnology for society | 2 | 0 | 0 | 0 | 2 | 2 | 50 | 50 | 100 |
| 8 | Part IV | 2. Skill based subject (Elective) Soft skill I | 2 | 0 | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| Total | | | | | | | 23 | 30 | 340 | 460 | 800 |

Part I & II subjects (UG) to be mentioned as Ability enhancement compulsory skills

* Practical Examinations will be conducted in even semester only

SCHEME OF II SEMESTER BSc PROGRAM

| S I. N O | Course catego ry | Course | Hour Distribution | | | | Ove r all Cre dits | Total Cont act Hour s/We ek | Marks | | |
|-------------------|------------------------|---|----------------------|---|---|---|--------------------------------|--|------------|------------|------------|
| | | | L | T | P | S | | | CIE | SE E | Total |
| 1 | Part I | Language/ Tamil Paper 2 | 4 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 2 | Part II | English Paper 2 | 4 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 3 | Part III | Core Paper: 2 Molecular Biology | 6 | 0 | 0 | 0 | 4 | 6 | 40 | 60 | 100 |
| 4 | Part III | Allied Paper: 2 Chemistry in Everyday Life | 6 | 0 | 0 | 0 | 3 | 6 | 40 | 60 | 100 |
| 5 | Part III | Core Practical II: Molecular Biology* | 0 | 0 | 3 | 0 | 3 | 3 | 40 | 60 | 100 |
| 6 | Part III | Allied Practical II: Chemistry in Everyday Life* | 0 | 0 | 3 | 0 | 2 | 3 | 40 | 60 | 100 |
| 7 | Part IV | 1. a. Those who have not studied Tamil upto XII std and taken a non- tamil language under Part – I shall take Tamil comprising of two courses (level will be at 6 th std). b. Those who have studied Tamil upto XII std and taken a non- Tamil language under Part- I shall take Advanced Tamil comprising of two courses. c. Others who do not come under a+b can choose non- major elective comprising of two courses. Non Major Elective 2 – Food Science | 2 | 0 | 0 | 0 | 2 | 2 | 50 | 50 | 100 |
| | Part IV | 2. Skill based subject (Elective) Soft skill II | 2 | 0 | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| | | Total | | | | | 23 | 30 | 340 | 460 | 800 |

Part I & II subjects (UG) to be mentioned as Ability enhancement compulsory skills

*Practical Examinations will be conducted in even semester only

SCHEME OF III SEMESTER BSc PROGRAM

| Sl. No | Course category | Course | Hour Distribution | | | | Over all Credits | Total Contact Hours /Week | Marks | | |
|--------|-----------------|--|-------------------|---|---|---|------------------|---------------------------|---|------------|------------|
| | | | L | T | P | S | | | CI E | SEE | Total |
| 1 | Part I | Language/ Tamil Paper 3 | 4 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 2 | Part II | English Paper 3 | 4 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 3 | Part III | Core Paper3: Skill Enhancement Course Bioinstrumentation | 6 | 0 | 0 | 0 | 4 | 6 | 40 | 60 | 100 |
| 4 | Part III | Allied Paper 3 : Biochemistry | 6 | 0 | 0 | 0 | 3 | 6 | 40 | 60 | 100 |
| 5 | Part III | Core Practical III: Bioinstrumentation* | 0 | 0 | 3 | 0 | 3 | 3 | 40 | 60 | 100 |
| 6 | Part III | Allied Practical III: Biochemistry* | 0 | 0 | 3 | 0 | 2 | 3 | 40 | 60 | 100 |
| 7 | Part IV | Skill based subject: Soft skill III | 2 | 0 | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| 8 | Part IV | Environmental studies | 2 | 0 | 0 | 0 | - | 2 | Examination will be held on IV semester | | |
| | | Total | | | | | 21 | 30 | 290 | 410 | 700 |

Part I & II subjects (UG) to be mentioned as Ability enhancement compulsory skills

*Practical Examinations will be conducted in even semester only

SCHEME OF IV SEMESTER BSc PROGRAM

| Sl. NO | Course category | Course | Credit Distribution | | | | Over all Credits | Total Contact Hours/Week | Marks | | |
|--------|-----------------|--|---------------------|---|---|---|------------------|--------------------------|------------|------------|------------|
| | | | L | T | P | S | | | CIE | SEE | Total |
| 1 | Part I | Language/ Tamil Paper 4 | 6 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 2 | Part II | English Paper 4 | 4 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 3 | Part III | Core Paper 4: Skill Enhancement Course Genetic Engineering | 6 | 0 | 0 | 0 | 4 | 6 | 40 | 60 | 100 |
| 4 | Part III | Allied paper 4: Fundamentals of Computers and Biostatistics | 6 | 0 | 0 | 0 | 3 | 6 | 40 | 60 | 100 |
| 5 | Part III | Core Practical IV: Genetic Engineering* | 0 | 0 | 3 | 0 | 3 | 3 | 40 | 60 | 100 |
| 6 | Part III | Allied practical IV: Fundamentals of Computers and Biostatistics* | 0 | 0 | 3 | 0 | 2 | 3 | 40 | 60 | 100 |
| 7 | Part IV | Skill based elective: Softskill IV | 2 | 0 | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| 8 | Part IV | Environmental studies | 2 | 0 | 0 | 0 | 2 | 2 | 50 | 60 | 100 |
| | | Total | | | | | 23 | 30 | 340 | 460 | 800 |

Part I & II subjects (UG) to be mentioned as Ability enhancement compulsory skills

*Practical Examinations will be conducted in even semester only

SCHEME OF V SEMESTER BSc PROGRAM

| Sl. No | Course category | Course | Credit | | | | Overall Credits | Total Contact Hours/Week | Marks | | |
|--------------|-----------------|--|--------------|---|---|---|-----------------|--------------------------|------------|------------|------------|
| | | | Distribution | | | | | | CIE | SEE | Total |
| | | | L | T | P | S | | | | | |
| 1 | PartIII | Core Paper 5: Immunology | 5 | 0 | 0 | 0 | 4 | 5 | 40 | 60 | 100 |
| 2 | PartIII | Core Paper 6: Bioinformatics | 5 | 0 | 0 | 0 | 3 | 5 | 40 | 60 | 100 |
| 3 | PartIII | Core Paper7: Bioprocess Technology | 5 | 0 | 0 | 0 | 4 | 5 | 40 | 60 | 100 |
| 4 | PartIII | Core Paper8: Skill Enhancement Course : Food Biotechnology | 5 | 0 | 0 | 0 | 4 | 5 | 40 | 60 | 100 |
| 5 | PartIII | Elective paper: 1A Marine Biotechnology or Elective paper: 1B Agricultural Biotechnology or Elective paper: 1C Basics of Stem cell Biology | 4 | 0 | 3 | 0 | 5 | 4 | 40 | 60 | 100 |
| 6 | PartIII | Core Practical V: Immunology, Bioinformatics, Bioprocess Technology&Food Biotechnology* | 0 | 0 | 5 | 0 | 3 | 5 | 40 | 60 | 100 |
| 8 | PartIV | Value Education | 0 | 0 | 0 | 0 | 2 | 1 | 50 | 50 | 100 |
| Total | | | | | | | 26 | 30 | 290 | 410 | 700 |

Elective papers should to be chosen by the candidate.

*Practical Examinations will be conducted in even semester only

SCHEME OF VI SEMESTER BSc PROGRAM

| Sl · NO | Course category | Course | Credit Distribution | | | | Overa llCred its | Total Conta ct Hours /Week | Marks | | |
|---------------|--------------------|--|------------------------|---|---|---|------------------------|--|------------|------------|------------|
| | | | L | T | P | S | | | CIE | SEE | Total |
| 1 | Part III | Core Paper9: Animal Biotechnology | 5 | 0 | 0 | 0 | 4 | 5 | 40 | 60 | 100 |
| 2 | Part III | Core Paper10: Skill Enhancement Course Plant Biotechnology | 5 | 0 | 0 | 0 | 4 | 5 | 40 | 60 | 100 |
| 3 | Part III | Core Paper11: Environmental Biotechnology | 5 | 0 | 0 | 0 | 3 | 5 | 40 | 60 | 100 |
| 4 | Part III | Elective paper:2A Entrepreneurship, Biosafety, Bioethics and Intellectual property rights or Elective paper:2B Biofertilizer or Elective paper:2C Medical Biotechnology | 4 | 0 | 0 | 0 | 5 | 4 | 40 | 60 | 100 |
| 5 | Part III | Open Elective paper:3 Public Health and Hygiene | 5 | 0 | 0 | 0 | 5 | 5 | 40 | 60 | 100 |
| 6 | Part III | Core Practical VI: Animal Biotechnology, Plant Biotechnology& Environmental Biotechnology* | 0 | 0 | 6 | 0 | 3 | 6 | 40 | 60 | 100 |
| 7 | Part-V | Extension Activity | - | - | - | - | 1 | - | - | - | - |
| Total | | | | | | | 26 | 30 | 240 | 360 | 600 |

Elective papers should to be chosen by the candidate.

*Practical Examinations will be conducted in even semester only



Dwaraka Doss Goverdhan Doss Vaishnav College
An Autonomous Institution Affiliated to the University of Madras
College with Potential for Excellence
(Linguistic Minority Institution,)
Arumbakkam, Chennai -106.

DEPARTMENT OF PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

BACHELOR OF SCIENCE

(B.SC)

Programme Code:13

OUTCOME BASED EDUCATION SYLLABUS

Academic Year 2020-2021

CHOICE BASED CREDIT SYSTEM (CBCS)

PRINCIPAL

PRINCIPAL
Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106.

Dr.R.MURALIDHARAN
Head of the Department

Head
Department of Plant Biology &
Plant Biotechnology
Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai-600 .



Dwaraka Doss Goverdhan Doss Vaishnav College

An Autonomous Institution Affiliated to the University of Madras
College with Potential for Excellence
(Linguistic Minority Institution,
Arumbakkam, Chennai -106.

Department of Plant Biology and Plant Biotechnology

B.SC

| Course component | Name of the course | Allocation of Credit & Hours | | Examination Hours | Max. Marks | |
|---|---|------------------------------|------------|-------------------|------------|-----|
| | | Credits | Hours/Week | | CIA | ESE |
| Part I | TAMIL/TELUGU/HINDI/ SANSKRIT/ FRENCH Ability Enhancement Compulsory Course (AECC) | 12 | 22 | 3 | 40 | 60 |
| Part II | ENGLISH Ability Enhancement Compulsory Course (AECC) | 12 | 20 | 3 | 40 | 60 |
| Part III | Core Course/Practical | 67 | | | | |
| Semester I (Subject Name & Credits) | Core Paper -1 : Algae, Fungi & Lichens | 04 | 06 | 3 | 40 | 60 |
| Semester II (Subject Name & Credits) | Core Paper -2: Basics in Microbiology & Plant Pathology | 04 | 06 | 3 | 40 | 60 |
| | Core Paper -3: Practical -I | 04 | 06 | 3 | 40 | 60 |

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| | | | | | | |
|--|--|----|----|---|----|----|
| | (Algae, Fungi & Lichen, Basics in Microbiology & Plant Pathology) | | | | | |
| Semester III (Subject Name & Credits) | Core Paper -4: Bryophytes & Pteridophytes | 04 | 06 | 3 | 40 | 60 |
| Semester IV (Subject Name & Credits) | Core Paper -5: Gymnosperm, Paleobotany & Evolution) | 04 | 06 | 3 | 40 | 60 |
| | Core Paper -6: Practical -II (Bryophytes & Pteridophytes, Gymnosperm, Paleobotany & Evolution) | 04 | 06 | 3 | 40 | 60 |
| Semester V (Subject Name & Credits) | Core Paper -7: Plant Morphology, Taxonomy & Economic Botany | 04 | 05 | 3 | 40 | 60 |
| | Core Paper -8: Plant Anatomy & Embryology | 04 | 05 | 3 | 40 | 60 |
| | Core Paper -9: Cell Biology & Molecular Biology | 04 | 05 | 3 | 40 | 60 |
| | Core Paper -10: Genetics, Plant Breeding & Biostatistics | 04 | 05 | 3 | 40 | 60 |
| Semester VI | Core Paper -11: | 04 | 05 | 3 | 40 | 60 |

B.L.V.

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Arumbakkam, Chennai - 600106

| | | | | | | |
|--------------------------|---|-----------|----|---|----|----|
| (Subject Name & Credits) | Plant Ecology & Phytogeography | | | | | |
| | Core Paper -12: Plant Physiology & Plant Biochemistry | 04 | 06 | 3 | 40 | 60 |
| | Core Paper -13: Plant Biotechnology | 04 | 05 | 3 | 40 | 60 |
| | Core Paper -14: Practical -III Covering Core Papers (7,8,9 &10) | 04 | 06 | 3 | 40 | 60 |
| | Core Paper -15: Practical -III Covering Core Papers (11,12,&13) | 04 | 06 | 3 | 40 | 60 |
| Part III | Allied Course/Practicals | 20 | | 3 | 40 | 60 |
| Semester I | Allied Paper – 1 Zoology | 04 | 06 | 3 | 40 | 60 |
| Semester II | Allied Paper – 2 Zoology | 04 | 06 | 3 | 40 | 60 |
| | Allied Practical –I (Covering Both Allied paper 1&2) | 02 | 06 | 3 | 40 | 60 |
| Semester III | Allied Paper – 3 Chemistry | 04 | 05 | 3 | 40 | 60 |
| Semester IV | Allied Paper – 4 Chemistry | 04 | 05 | 3 | 40 | 60 |
| | Allied Practical –I | 02 | 06 | 3 | 40 | 60 |



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| | | | | | | |
|------------------------------|--|----------------|----|---|----|----|
| | (Covering Both Allied paper 3&4) | | | | | |
| Part III | Minimum THREE ELECTIVE PAPERS | 3x5 =15 | | | | |
| Discipline Specific Elective | Core Elective Paper -1: (V- Semester) Horticulture & Mushroom Cultivation | 04 | 04 | 3 | 40 | 60 |
| Discipline Specific Elective | Core Elective Paper -2: (VI- Semester) Herbal Science & Ethnobotany | 04 | 04 | 3 | 40 | 60 |
| Discipline Specific Elective | Core Elective Paper -3: (VI- Semester) Micro-technique | 04 | 04 | 3 | 40 | 60 |
| Open Elective | Organic farming/Bioinformatics/ Seaweed Technology | 03 | 02 | 3 | 40 | 60 |
| Internship/ Project | An elective course designed to acquire special/advanced knowledge, such as supplement study/support study to a project work and a candidate studies such a course on his own with an advisory support by a teacher/faculty member is called Dissertation/Project. | | | | | |
| Part IV | 1.BASIC TAMIL/ADVANCED TAMIL/NME | 04 | 02 | 3 | | |
| | 2.SOFTSKILLS | 12 | 04 | 3 | | |



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| | | | | | | |
|---------------|--|------------|------------|---|--|--|
| | 3.ENVIRONMENTAL STUDIES (SEMESTER IV) Ability Enhancement Compulsory Course (AECC) | 02 | 01 | 3 | | |
| | 4.VALUE EDUCATION (SEMESTER V) | 02 | 01 | 3 | | |
| Part V | 5. EXTENSION ACTIVITY (Semester VI) | 01 | | | | |
| | MOOC COURSES/CERTIFICATE COURSES (if any) | 02 | | | | |
| | TOTAL | 149 | 182 | | | |



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Arumbakkam, Chennai - 600106.

B.Sc. DEGREE COURSE IN VISUAL COMMUNICATION

CHOICE BASED CREDIT SYSTEM (CBCS) WITH GRADING

SEMESTER SYSTEM WITH CREDITS

&

OUTCOME BASED EDUCATION



Dwaraka Doss Goverdhan Doss Vaishnav College (Autonomous)
(Effective from the Academic year 2020-2021)


PRINCIPAL
Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106.


Head
Department of Visual Communication
Dwaraka Doss Goverdhan Doss
Vaishnav College (Shift II)
Arumbakkam, Chennai-600 106.

Dwaraka Doss Goverdhan Doss Vaishnav College (Autonomous), Chennai – 600 106

[Affiliated to University of Madras]

B.Sc. [Visual Communication]

Curriculum (Batch 2019 – 2020 Onwards)

| Curriculum Design Template of B.Sc. Visual Communication from 2019-2020 | | | | | | | |
|---|------------------|---|----------|------------|---------|---------------------|-----------|
| FIRST SEMESTER | | | | | | | |
| S. No | Course Component | Name of Course | Semester | Inst Hours | Credits | Exam Duration Hours | Max Marks |
| 1 | Part I | Foundation Course: Language Paper I | 1 | 4 | 3 | 3 | 100 |
| 2 | Part I | Foundation Course: English Paper I | 1 | 4 | 3 | 3 | 100 |
| 3 | Part II | Core – Paper I Approaches to Communication | 1 | 5 | 4 | 3 | 100 |
| 4 | Part II | Core – Paper II : Writing for Media | 1 | 5 | 4 | 3 | 100 |
| 5 | Part II | Core – Paper III Drawing (Practical 1) | 1 | 5 | 4 | 3 | 100 |
| 6 | Part III | Allied-I (Paper I) Film Appreciation Course (Practical 2) | 1 | 6 | 4 | 3 | 100 |
| 7 | Part IV | Non- Major Elective (Compulsory) | 1 | 2 | 2 | 3 | 100 |
| 8 | Part V | Soft Skills | 1 | 3 | 3 | 3 | 100 |
| SECOND SEMESTER | | | | | | | |
| 1 | Part I | Foundation Course: Language Paper II | 2 | 4 | 3 | 3 | 100 |
| 2 | Part I | Foundation Course: English Paper II | 2 | 4 | 3 | 3 | 100 |
| 3 | Part II | Core – Paper IV Digital Photography | 2 | 5 | 4 | 3 | 100 |
| 4 | Part II | Core - Paper V Psychology of Media | 2 | 5 | 4 | 3 | 100 |
| 5 | Part II | Core – Paper VI Graphic Design (Practical 3) | 2 | 5 | 4 | 3 | 100 |
| 6 | Part III | Allied-I (Paper II) Digital Art (Practical 4) | 2 | 6 | 4 | 3 | 100 |

Curriculum Design Template of B.Sc. Visual Communication from 2019-2020

| | | | | | | | |
|------------------------|----------|--|---|---|---|---|-----|
| 7 | Part IV | Non- Major Elective (Compulsory) | 2 | 2 | 2 | 3 | 100 |
| 8 | Part V | Soft Skills | 2 | 3 | 3 | 3 | 100 |
| THIRD SEMESTER | | | | | | | |
| 1 | Part I | Foundation Course: Language Paper III | 3 | 6 | 3 | 3 | 100 |
| 2 | Part I | Foundation Course: English Paper III | 3 | 6 | 3 | 3 | 100 |
| 3 | Part II | Core – Paper VII Advertising | 3 | 5 | 4 | 3 | 100 |
| 4 | Part II | Core – Paper VIII Media, Culture and Society | 3 | 5 | 4 | 3 | 100 |
| 5 | Part III | Allied-II (paper 3) Computer Graphics I (Practical 5) | 3 | 5 | 4 | 3 | 100 |
| 6 | Part III | Allied – II (paper 4) Photography (Practical 6) | 3 | 5 | 4 | 3 | 100 |
| 7 | Part IV | Theory: Soft Skills (Compulsory) | 3 | 2 | 3 | | 100 |
| FOURTH SEMESTER | | | | | | | |
| 1 | Part I | Foundation Course: Language Paper IV | 4 | 6 | 3 | 3 | 100 |
| 2 | Part I | Foundation Course: English Paper IV | 4 | 6 | 3 | 3 | 100 |
| 3 | Part II | Core – Paper IX Film Studies | 4 | 5 | 4 | 3 | 100 |
| 4 | Part II | Core – Paper X Advanced Photography | 4 | 5 | 4 | 3 | 100 |
| 5 | Part III | Core – Paper XI Multimedia (Practical 7) | 4 | 5 | 4 | 3 | 100 |
| 6 | Part III | Allied II (paper 5) Digital Cinematography (Practical 8) | 4 | 5 | 4 | 3 | 100 |
| 7 | Part III | Allied II (paper 6) Newsletter (Practical 9) | 4 | 4 | 4 | 3 | 100 |
| 8 | Part IV | Theory: Environmental Studies (Compulsory) | 4 | 2 | 2 | 3 | 100 |
| 9 | Part IV | Soft Skills | 3 | 2 | 3 | 3 | 100 |

| S No | Course Component | Name of the Course | Sem | Ins. Hours | Credits | Exam Duration | Max. Marks |
|-----------------------|------------------|--|-----|------------|---------|---------------|------------|
| FIFTH SEMESTER | | | | | | | |
| 1 | Part II | Core – Paper XII Audio-Video Editing | 5 | 6 | 5 | 3 | 100 |
| 2 | Part II | Core – Paper XIII Media Organisation | 5 | 6 | 5 | 3 | 100 |
| 3 | Part II | Core – Paper XIV Research Methodology in Communication | 5 | 6 | 5 | 3 | 100 |
| 4 | Part II | Core – Paper XV Audio Visual Techniques (Practical 10) | 5 | 5 | 5 | 3 | 100 |
| 5 | Part II | Core-Paper XVI Elective (Practical 11) | 5 | 5 | 5 | 3 | 100 |
| 6 | Part II | Core Paper XVII 3Ds Max and Maya (Practical 12) | 5 | 5 | 5 | 3 | 100 |
| 7 | Part IV | Value Education | 5 | | 2 | 3 | 100 |
| SIXTH SEMESTER | | | | | | | |
| 1 | Part II | Core – Paper XVIII – Broadcast Journalism | 6 | 6 | 5 | 3 | 100 |
| 2 | Part II | Core – Paper XIX - Portfolio (Practical 13) | 6 | 6 | 5 | 3 | 100 |
| 3 | Part II | Core -Paper XX Documentary production (Practical 14) | 6 | 6 | 5 | 3 | 100 |
| 4 | Part II | Core – Paper XXI Elective (Practical 15) | 6 | 5 | 5 | 3 | 100 |
| 5 | Part III | Core –Paper XXII – Internship (Practical 16) | 5 | | 5 | 3 | 100 |
| 6 | Part IV | Extension Activity | 6 | | 1 | | 100* |

DEPARTMENT OF COMPUTER SCIENCE

**OUTCOME BASED EDUCATION
With
CHOICE BASED CREDIT SYSTEM**

THREE YEARS B.Sc. COMPUTER SCIENCE PROGRAMME

2020 - 2021 BATCH ONWARDS



**DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE
(AUTONOMOUS)**

College with Potential for Excellence

Linguistic Minority Institution affiliated to University of Madras

E.V.R. PERIYAR HIGH ROAD,

ARUMBAKKAM, CHENNAI – 600106, TAMILNADU.

PRINCIPAL

**Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106.**

Head

**Department of Computer Science
Dwaraka Doss Goverdhan Doss
Vaishnav College (Shift II)
Arumbakkam, Chennai-600 106.**

DEPARTMENT OF COMPUTER SCIENCE

SCHEME OF I SEMESTER B.SC COMPUTER SCIENCE PROGRAMME

| Sl. No. | Course Category | Course Code | Course | Credit Distribution | | | | Over all Credits | Total Contact Hours/ Week | Marks | | |
|--------------|----------------------|-------------|---|---------------------|----------|----------|----------|------------------|---------------------------|------------|------------|------------|
| | | | | L | T | P | S | | | CIA | ESE | Total |
| 1 | Language P1 | 1816101 | Language Paper I | 3 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 2 | English P1 | 1899101 | English Paper I | 3 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 3 | Core Theory T1 | 1815101 | Computer Fundamentals | 3 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 4 | Core Theory T2 | 1815102 | Digital Electronics and Microprocessor | 2 | 1 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 5 | Core Practical P1 | 1815104 | Digital Electronics and Microprocessor Lab | 0 | 0 | 2 | 0 | 3 | 4 | 40 | 60 | 100 |
| 6 | Allied Paper P1 | 1808108 | Mathematics – I | 5 | 0 | 0 | 0 | 5 | 6 | 40 | 60 | 100 |
| 7 | Non-Major Elective 1 | 20XXXX | NON-MAJOR ELECTIVE a) Those who have studied Tamil up to XII Std. shall take either Fundamentals of Information Technology or Advanced Tamil. b) Those who have not studied Tamil up to XII Std. and taken a Non-Tamil Language under Part-I shall take Tamil comprising of two course (level will be at 6 th Standard). | 2 | 0 | 0 | 0 | 2 | 2 | 40 | 60 | 100 |
| 8 | Soft Skills* | 1840101 | SOFT SKILLS * | 3 | 0 | 0 | 0 | 3 | 2 | 40 | 60 | 100 |
| Total | | | | 21 | 1 | 2 | - | 25 | 30 | 320 | 480 | 800 |

CIA-Continuous Internal Assessment

ESE-End Semester Examination

English and Soft Skills*- Syllabus framed and approved by English Department.

Language - Syllabus framed and approved by Language Departments.

DEPARTMENT OF COMPUTER SCIENCE

SCHEME OF II SEMESTER B.SC COMPUTER SCIENCE PROGRAMME

| Sl. No. | Course Category | Course Code | Course | Credit Distribution | | | | Over all Credits | Total Contact Hours/ Week | Marks | | |
|--------------|----------------------|-------------|---|---------------------|---|---|---|------------------|---------------------------|-------|-----|-------|
| | | | | L | T | P | S | | | CIA | ESE | Total |
| 1 | Language P2 | 1816204 | Language Paper II | 3 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 2 | English P2 | 1899202 | English Paper II | 3 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 3 | Core Theory T3 | 1815205 | Object Oriented Programming Using C++ | 2 | 1 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 4 | Core Theory T4 | 1815206 | Data Structures | 2 | 1 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 5 | Core Practical P2 | 1815208 | OOPS and Data Structures Lab | 0 | 0 | 2 | 0 | 2 | 4 | 40 | 60 | 100 |
| 6 | Allied paper P2 | 1808215 | Mathematics – II | 5 | 0 | 0 | 0 | 5 | 6 | 40 | 60 | 100 |
| 7 | Non-Major Elective 2 | 20XXXX | PART-IV NON-MAJOR ELECTIVE a) Those who have studied Tamil up to XII Std. shall take either HTML AND WEB DESIGN or Advanced Tamil. b) Those who have not studied Tamil up to XII Std. and taken a Non-Tamil Language under Part-I shall take Tamil comprising of two course (level will be at 6th Standard). | 2 | 0 | 0 | 0 | 2 | 2 | 40 | 60 | 100 |
| 8 | Soft skills* | 1840201 | Soft skills * | 3 | 0 | 0 | 0 | 3 | 2 | 40 | 60 | 100 |
| Total | | | | 20 | 2 | 2 | - | 24 | 30 | 320 | 480 | 800 |

CIA-Continuous Internal Assessment

ESE-End Semester Examination

English and Soft Skills*- Syllabus framed and approved by English Department.

Language - Syllabus framed and approved by Language Departments.

DEPARTMENT OF COMPUTER SCIENCE

SCHEME OF III SEMESTER B.SC COMPUTER SCIENCE PROGRAMME

| Sl. No. | Course Category | Course Code | Course | Credit Distribution | | | | Over all Credits | Total Contact Hours/ Week | Marks | | |
|--------------|-------------------|-------------|-------------------------|---------------------|----------|----------|----------|------------------|---------------------------|------------|------------|------------|
| | | | | L | T | P | S | | | CIA | ESE | Total |
| 1 | Language P3 | 1816307 | Language Paper III | 3 | 1 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 2 | English P3 | 1899303 | English Paper III | 3 | 1 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 3 | Core Theory T5 | 1815309 | Java Programming | 3 | 1 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 4 | Core Theory T6 | 1815310 | Web Design | 3 | 1 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 5 | Core Practical P3 | 1815311 | Java and Web Design lab | 0 | 0 | 4 | 0 | 4 | 4 | 40 | 60 | 100 |
| 6 | Allied Paper P3 | 1808320 | Mathematics – III | 5 | 0 | 0 | 0 | 5 | 5 | 40 | 60 | 100 |
| 7 | Soft Skill | 1840301 | Soft Skills ** | 3 | 0 | 0 | 0 | 2 | 5 | 40 | 60 | 100 |
| Total | | | | 20 | 4 | 4 | - | 27 | 30 | 280 | 420 | 700 |

CIA-Continuous Internal Assessment

ESE-End Semester Examination

English and Soft Skills*- Syllabus framed and approved by English Department.

Language - Syllabus framed and approved by Language Departments.

DEPARTMENT OF COMPUTER SCIENCE

SCHEME OF IV SEMESTER B.SC COMPUTER SCIENCE PROGRAMME

| Sl. No. | Course Category | Course Code | Course | Credit Distribution | | | | Over all Credits | Total Contact Hours/ Week | Marks | | |
|--------------|-----------------------|-------------|---|---------------------|----------|----------|----------|------------------|---------------------------|------------|------------|------------|
| | | | | L | T | P | S | | | CIA | ESE | Total |
| 1 | Language P4 | 18-19XXXX | Language Paper IV | 2 | 1 | 0 | 0 | 3 | 6 | 40 | 60 | 100 |
| 2 | English P4 | 18-19XXXX | English Paper IV | 2 | 1 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 3 | Core Theory T7 | 18-19XXXX | Visual Programming | 3 | 1 | 0 | 0 | 4 | 3 | 40 | 60 | 100 |
| 4 | Core Theory Elective1 | 18-19XXXX | Computer Networks / Client –Server Technology/ Artificial Intelligence and Expert Systems | 3 | 1 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 5 | Core Practical P4 | 18-19XXXX | Visual Programming Lab | 0 | 0 | 2 | 0 | 2 | 4 | 40 | 60 | 100 |
| 6 | Allied Paper P4 | 18-19XXXX | Mathematics - IV | 5 | 0 | 0 | 0 | 5 | 6 | 40 | 60 | 100 |
| 7 | Soft Skill | 18-19XXXX | Soft Skills** | 2 | 1 | 0 | 0 | 3 | 2 | 40 | 60 | 100 |
| 8 | EVS | 18-19XXXX | Environmental Studies | 2 | 0 | 0 | 0 | 2 | 1 | 40 | 60 | 100 |
| Total | | | | 19 | 5 | 2 | - | 26 | 30 | 320 | 480 | 800 |

CIA-Continuous Internal Assessment

ESE-End Semester Examination

English and Soft Skills*- Syllabus framed and approved by English Department.

Language - Syllabus framed and approved by Language Departments.

DEPARTMENT OF COMPUTER SCIENCE

SCHEME OF V SEMESTER B.Sc COMPUTER SCIENCE PROGRAMME

| Sl. No. | Course Category | Course Code | Course | Credit Distribution | | | | Over all Credits | Total Contact Hours/Week | Marks | | |
|--------------|------------------------|-------------|--|---------------------|----------|----------|----------|------------------|--------------------------|------------|------------|------------|
| | | | | L | T | P | S | | | CIA | ESE | Total |
| 1 | Core Theory T9 | 18-19XXXX | Operating Systems | 4 | 0 | 0 | 0 | 4 | 5 | 40 | 60 | 100 |
| 2 | Core Theory T10 | 18-19XXXX | Database Management Systems | 3 | 1 | 0 | 0 | 4 | 5 | 40 | 60 | 100 |
| 3 | Core Theory T11 | 18-19XXXX | Computer Graphics | 4 | 0 | 0 | 0 | 4 | 5 | 40 | 60 | 100 |
| 4 | Core Theory Elective 2 | 18-19XXXX | ASP. Net Programming / Advanced Java Programming/ Multimedia | 4 | 1 | 0 | 0 | 5 | 5 | 40 | 60 | 100 |
| 5 | Core Practical P5 | 18-19XXXX | RDBMS Lab | 0 | 0 | 3 | 0 | 3 | 5 | 40 | 60 | 100 |
| 6 | Core Practical P6 | 18-19XXXX | Lab Based on Elective II | 0 | 0 | 3 | 0 | 3 | 5 | 40 | 60 | 100 |
| 7 | Value Education | 18-19XXXX | Value Education | 1 | 0 | 0 | 0 | 1 | 5 | 40 | 60 | 100 |
| total | | | | 16 | 2 | 3 | - | 24 | 35 | 280 | 420 | 700 |

CIA-Continuous Internal Assessment

ESE-End Semester Examination

DEPARTMENT OF COMPUTER SCIENCE

SCHEME OF VI SEMESTER B.SC COMPUTER SCIENCE PROGRAMME

| Sl. No. | Course Category | Course Code | Course | Credit Distribution | | | | Over all Credits | Total Contact Hours/Week | Marks | | |
|--------------|------------------------|-------------|--|---------------------|----------|----------|----------|------------------|--------------------------|------------|------------|------------|
| | | | | L | T | P | S | | | CIA | ESE | Total |
| 1 | Core Theory T13 | 18-19XXXX | Programming in PHP | 3 | 1 | 0 | 0 | 4 | 5 | 40 | 60 | 100 |
| 2 | Core Theory T14 | 18-19XXXX | Python Programming | 3 | 1 | 0 | 0 | 4 | 5 | 40 | 60 | 100 |
| 3 | Core Theory T15 | 18-19XXXX | Software Engineering | 4 | 0 | 0 | 0 | 4 | 5 | 40 | 60 | 100 |
| 4 | Core Theory Elective 3 | 18-19XXXX | Data mining / Digital Image Processing/Unified Modeling Language | 4 | 1 | 0 | 0 | 5 | 5 | 40 | 60 | 100 |
| 5 | Core Practical P7 | 18-19XXXX | PHP and Python Programming Lab | 0 | 0 | 3 | 0 | 3 | 5 | 40 | 60 | 100 |
| 6 | Core Practical P8 | 18-19XXXX | Mini Project | 0 | 0 | 5 | 0 | 5 | 5 | 40 | 60 | 100 |
| 7 | Extension Activities | 18-19XXXX | Extension Activities | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| Total | | | | 14 | 3 | 5 | 0 | 26 | 30 | 240 | 360 | 600 |

CIA-Continuous Internal Assessment

ESE-End Semester Examination

Extension Activities – Organized by the Institution.



DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE
(Autonomous)

College with Potential for Excellence, Linguistic Minority Institution
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Arumbakkam, Chennai 600 106

PG & Research Department of Commerce

Master in Commerce
(M.COM)

Programme Code: 20

OBE SYLLABUS

Academic Year 2020-2021


CHOICE BASED CREDIT SYSTEM (CBCS)


PROF. S. SESHADRINATHAN
Head of the Department (Shift II)

Head
Department of Commerce
Dwaraka Doss Goverdhan Doss
Vaishnav College (Shift II)
Arumbakkam, Chennai-600 106.


Dr J JAYASANKAR
Head of the Department (Shift I)

Dr.J.Jayasankar, M.Com., M.Phil., Ph.D
Associate Professor & Head
Research Supervisor & Guide
PG & Research Dept. of Commerce
Dwaraka Doss Goverdhan Doss Vaishnav college
Arumbakkam, Chennai- 600 106.


PRINCIPAL
Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106.



Post Graduate & Research Department of Commerce

FIRST SEMESTER

| S.No | Course Category | Name of the Course | Instructional Hours | Credits | Examination Hours | Max. Marks | |
|------|-----------------------------|-------------------------------------|---------------------|---------|-------------------|------------|-----|
| | | | | | | CIA | ESE |
| 1 | Core Paper I | Advanced Corporate Accounting – I | 6 | 4 | 3 | 40 | 60 |
| 2 | Core Paper II | Financial Management | 6 | 4 | 3 | 40 | 60 |
| 3 | Core Paper III | Consumer Behaviour | 6 | 4 | 3 | 40 | 60 |
| 4 | Specialised Course-I | Logistics & Supply Chain Management | 6 | 4 | 3 | 40 | 60 |
| 5 | Elective Paper-I | Advanced Statistics | 6 | 4 | 3 | 40 | 60 |
| 6 | Skill Based | Soft Skill-I | | 3 | 3 | 40 | 60 |
| | Total | | 30 | 23 | | | |

SECOND SEMESTER

| S.No | Course Component | Name of the Course | Instructional Hours | Credits | Examination Hours | Max. Marks | |
|------|------------------------------|---|---|---------|--|------------|-----|
| | | | | | | CIA | ESE |
| 1 | Core Paper V | Advanced Corporate Accounting-II | 6 | 4 | 3 | 40 | 60 |
| 2 | Core Paper VI | Services Marketing | 6 | 4 | 3 | 40 | 60 |
| 3 | Core Paper VII | Corporate Laws | 6 | 4 | 3 | 40 | 60 |
| 4 | Specialised Course-II | Corporate Governance , Ethics and Social Responsibility of Business | 6 | 4 | 3 | 40 | 60 |
| 5 | Elective Paper II | Resource Management Techniques | 6 | 4 | 3 | 40 | 60 |
| 6 | Skill Based | Soft Skill-I | | 3 | 3 | 40 | 60 |
| 7 | | Internship | Students Undergo 4 Weeks of Training During Summer Holidays | 2 | Evaluation by the Internal Marks will be entered in the Third Semester | 100 | |
| | Total | | 30 | 25 | | | |



Post Graduate & Research Department of Commerce

THIRD SEMESTER

| S.No | Course Component | Name of the Course | Instructional Hours | Credits | Examination Hours | Max. Marks | |
|------|-------------------------------|--|---------------------|---------|-------------------|------------|-----|
| | | | | | | CIA | ESE |
| 1 | Core Paper VIII | Accounting for Managers – I | 6 | 4 | 3 | 40 | 60 |
| 2 | Core Paper IX | Research Methodology | 6 | 4 | 3 | 40 | 60 |
| 3 | Core Paper X | Fundamentals of Information (Practical Paper No Theory Exam) | 6 | 4 | 3 | 40 | 60 |
| 4 | Elective Paper III | Tax Management – Direct Taxes | 6 | 4 | 3 | 40 | 60 |
| 5 | Specialised Course-III | India's Foreign Trade and Investment | 6 | 4 | 3 | 40 | 60 |
| 6 | Skill Based Elective | | | 3 | 3 | 40 | 60 |
| | Total | | 30 | 23 | | | |

FOURTH SEMESTER

| S.No | Course Component | Name of the Course | Instructional Hours | Credits | Examination Hours | Max. Marks | |
|------|---------------------------|-------------------------------------|---------------------|---------|-------------------|------------|-----|
| | | | | | | CIA | ESE |
| 1 | Core Paper XI | Accounting for Managers – II | 6 | 4 | 3 | 40 | 60 |
| 2 | Core Paper XII | Advertising and Salesmanship | 6 | 4 | 3 | 40 | 60 |
| 3 | Core Paper XIII | Organisational Behaviour | 6 | 4 | 3 | 40 | 60 |
| 4 | Elective Paper III | Project Report and Viva Voce | 6 | 4 | 3 | 40 | 60 |
| 5 | Elective -IV | Indirect Taxes | 6 | 4 | 3 | 40 | 60 |
| 6 | Soft Skill | | | 3 | 3 | 40 | 60 |
| | Total | | 30 | 23 | | | |

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**POST GRADUATE & RESEARCH
DEPARTMENT OF MATHEMATICS
(M Sc Mathematics)
Programme Code: 21**

**Academic Year 2020-2021
SYLLABUS
(Choice Based Credit System)
OUTCOME BASED EDUCATION
FOR STUDENTS ADMITTED FROM 2019-2020 ONWARDS**

PRINCIPAL
Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106.

R. VENKATARAMANAN M.Sc., M.Phil.
ASSOCIATE PROFESSOR AND HEAD
P.G. AND RESEARCH DEPT OF MATHEMATICS
DWARAKADOSS GOVERDHAN DOSS
VAISHNAV COLLEGE
CHENNAI - 600 106

M.Sc. Mathematics

DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE

(AUTONOMOUS)

CHENNAI – 600 106

Program Name: M.Sc. Mathematics

Curriculum and scheme of Examination under CBCS

(Applicable to the students admitted during the Academic Year 2019-2020 and Onwards)

| Semester | Subject Code | Title of the Paper | Instruction hours/cycle | Exam. Marks | | | Duration of Exam (hours) | Credits |
|-----------|--------------|--|-------------------------|-------------|----------|----------|--------------------------|----------|
| | | | | CIA | ESE | TOTAL | | |
| I | 1921101 | Core Paper I Algebra I | 6 | 40 | 60 | 100 | 3 | 4 |
| | 1921102 | Core Paper II Real Analysis I | 6 | 40 | 60 | 100 | 3 | 4 |
| | 1921103 | Core Paper III Probability theory | 6 | 40 | 60 | 100 | 3 | 4 |
| | 1921104 | Core Paper IV Graph theory | 6 | 40 | 60 | 100 | 3 | 4 |
| | 1921105 | Elective I – Paper V Numerical Analysis | 4 | 40 | 60 | 100 | 3 | 3 |
| | 1950101 | Soft Skills – I | 2 | 50 | 50 | 100 | 3 | 2 |
| | Total | | | 30 | - | - | 600 | - |
| II | 1921207 | Core Paper VI Algebra II | 6 | 40 | 60 | 100 | 3 | 4 |
| | 1921208 | Core Paper VII Real Analysis II | 6 | 40 | 60 | 100 | 3 | 4 |
| | 1921209 | Core Paper VIII Differential Equations | 6 | 40 | 60 | 100 | 3 | 4 |
| | 1921210 | Core Paper IX Mathematical Statistics | 6 | 40 | 60 | 100 | 3 | 4 |
| | 1921211 | Elective II – Paper X Fuzzy sets and their Applications | 4 | 40 | 60 | 100 | 3 | 3 |
| | 1950201 | Soft Skills – II | 2 | 50 | 50 | 100 | 3 | 2 |
| | Total | | | 30 | - | - | 600 | - |

| | | | | | | | | |
|--------------------|--------------|---|------------|-----------|----------|-------------|------------|-----------|
| III | 1921313 | Core Paper XI Complex Analysis - I | 5 | 40 | 60 | 100 | 3 | 4 |
| | 1921314 | Core Paper XII Topology | 5 | 40 | 60 | 100 | 3 | 4 |
| | 1921315 | Core Paper XIII Mechanics | 5 | 40 | 60 | 100 | 3 | 4 |
| | 1921316 | Core Paper XIV Differential Geometry | 5 | 40 | 60 | 100 | 3 | 4 |
| | 1921317 | Elective III – Paper XV Number Theory and Cryptogaphy | 4 | 40 | 60 | 100 | 3 | 3 |
| | 1921318 | Extra Disciplinary I Digital logic Fundamentals | 4 | 40 | 60 | 100 | 3 | 3 |
| | 1960301 | Internship | - | - | - | - | - | 2 |
| | 1950301 | Soft Skills III | 2 | 50 | 50 | 100 | 3 | 2 |
| | Total | | | 30 | - | - | 700 | - |
| IV | 1921419 | Core Paper XVI Complex Analysis - II | 5 | 40 | 60 | 100 | 3 | 4 |
| | 1921420 | Core Paper XVII Functional Analysis | 5 | 40 | 60 | 100 | 3 | 4 |
| | 1921421 | Core Paper XVIII Tensor Analysis and Theory of Relativity | 5 | 40 | 60 | 100 | 3 | 4 |
| | 1921422 | Elective IV – Paper XIX Fluid Dynamics | 5 | 40 | 60 | 100 | 3 | 3 |
| | 1921423 | Elective V – Paper XX Integral Equations and Calculus of variations | 4 | 40 | 60 | 100 | 3 | 3 |
| | 1921424 | Extra Disciplinary II Algorithms | 4 | 40 | 60 | 100 | 3 | 3 |
| | 1950401 | Soft skills IV | 2 | 50 | 50 | 100 | 3 | 2 |
| | Total | | | 30 | - | - | 700 | - |
| Grand Total | | | 120 | | | 2600 | - | 91 |



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Department of Physics (Shift II)

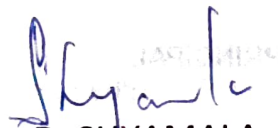
M.Sc. Physics

Programme Code: 22

OUTCOME BASED EDUCATION SYLLABUS

Academic Year 2020–2021

CHOICE BASED CREDIT SYSTEM (CBCS)


Dr. D. SHYAMALA
Head of the Department (Shift II)
P.G. Department of Physics
Dwaraka Doss Goverdhan Doss
Vaishnav College (Shift II)
Arumbakkam, Chennai-600 106.



PRINCIPAL
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M.Sc. Physics
FIRST SEMESTER

| Sl. NO | Course Category | Course | Credit Distribution | | | | Over all Credits | Total Contact Hours/Week | Marks | | |
|--------------|-----------------|----------------------------------|---------------------|---|---|---|---|--------------------------|------------|------------|------------|
| | | | L | T | P | S | | | CIA | ESE | Total |
| 1 | | Paper 1 – Mathematical Physics I | 6 | 0 | 0 | 0 | 4 | 6 | 40 | 60 | 100 |
| 2 | | Paper 2 – Classical Mechanics | 6 | 0 | 0 | 0 | 4 | 6 | 40 | 60 | 100 |
| 3 | | Paper 3 – Electromagnetic Theory | 6 | 0 | 0 | 0 | 4 | 6 | 40 | 60 | 100 |
| 4 | | Paper 4 – Integrated Electronics | 6 | 0 | 0 | 0 | 4 | 6 | 40 | 60 | 100 |
| 5 | | Paper 5 – Practical I | 0 | 0 | 3 | 0 | Practical examination at the end of Semester II (6 hours) | | | | |
| 6 | | Paper 6 – Practical II | 0 | 0 | 3 | 0 | | | | | |
| 7 | | Soft Skill I | | | | | 2 | | 25 | 25 | 50 |
| Total | | | | | | | 18 | 30 | 185 | 265 | 450 |

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SECOND SEMESTER

| Sl. NO | Course Category | Course | Credit Distribution | | | | Over all Credits | Total Contact Hours /Week | Marks | | |
|--------------|-----------------|--|---------------------|---|---|---|------------------|---------------------------|------------|------------|------------|
| | | | L | T | P | S | | | CIE | SEE | Total |
| 1 | | Paper 7 – Mathematical Physics II | 6 | 0 | 0 | 0 | 4 | 6 | 40 | 60 | 100 |
| 2 | | Paper 8 – Quantum Mechanics I | 6 | 0 | 0 | 0 | 4 | 6 | 40 | 60 | 100 |
| 3 | | Paper 5 – Practical I | 0 | 0 | 3 | 0 | 4 | 3 | 40 | 60 | 100 |
| 4 | | Paper 6 – Practical II | 0 | 0 | 3 | 0 | 4 | 3 | 40 | 60 | 100 |
| 5 | | Paper 9 – Spectroscopy/General Relativity/Group Theory | 6 | 0 | 0 | 0 | 5 | 6 | 40 | 60 | 100 |
| 6 | | Paper 10 – Introduction to Microprocessor and Microcontroller 8051 | 6 | 0 | 0 | 0 | 4 | 6 | 40 | 60 | 100 |
| 7 | | Soft Skill II | | | | | 2 | | 40 | 60 | 100 |
| Total | | | | | | | 27 | 30 | 280 | 420 | 700 |

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THIRD SEMESTER

| Sl. NO | Course Category | Course | Credit Distribution | | | | Over all Credits | Total Contact Hours /Week | Marks | | |
|--------------|-----------------|---|---------------------|---|---|---|---|---------------------------|------------|------------|------------|
| | | | L | T | P | S | | | CIE | SEE | Total |
| 1 | | Paper 11 – Statistical Mechanics | 6 | 0 | 0 | 0 | 4 | 6 | 40 | 60 | 100 |
| 2 | | Paper 12 – Quantum Mechanics II | 6 | 0 | 0 | 0 | 4 | 6 | 40 | 60 | 100 |
| 3 | | Paper 13 – Practical III | 0 | 0 | 3 | 0 | Practical examination at the end of Semester IV (6 hours) | | | | |
| 4 | | Paper 14 – Practical IV | 0 | 0 | 3 | 0 | | | | | |
| 5 | | Paper 15 – Medical Physics/Relativistic Quantum Mechanics/Laser & Non-linear Optics | 6 | 0 | 0 | 0 | 5 | 6 | 40 | 60 | 100 |
| 6 | | Paper 16 – Materials Synthesis and Characterization | 6 | 0 | 0 | 0 | 4 | 6 | 40 | 60 | 100 |
| 7 | | Soft Skill III | | | | | 2 | | 40 | 60 | 100 |
| | | Industrial/Academic Internship (not less than 4 weeks) | | | | | 2 | | | | |
| Total | | | | | | | 21 | 30 | 200 | 300 | 500 |

B.L.V.

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FOURTH SEMESTER

| Sl. NO | Course Category | Course | Credit Distribution | | | | Over all Credits | Total Contact Hours/Week | Marks | | |
|--------------|-----------------|--|---------------------|---|---|---|------------------|--------------------------|------------|------------|------------|
| | | | L | T | P | S | | | CIE | SEE | Total |
| 1 | | Paper 17 – Condensed Matter Physics | 6 | 0 | 0 | 0 | 4 | 6 | 40 | 60 | 100 |
| 2 | | Paper 18 – Nuclear & Particle Physics | 6 | 0 | 0 | 0 | 4 | 6 | 40 | 60 | 100 |
| 3 | | Paper 13 – Practical III | 0 | 0 | 3 | 0 | 4 | 3 | 40 | 60 | 100 |
| 4 | | Paper 14 – Practical IV | 0 | 0 | 3 | 0 | 4 | 3 | 40 | 60 | 100 |
| 5 | | Paper 19 – Computational Methods and C programming | 6 | 0 | 0 | 0 | 5 | 6 | 40 | 60 | 100 |
| 6 | | Soft Skill IV | | | | | 2 | | 40 | 60 | 100 |
| 7 | | Paper 20 – Project | 6 | 0 | 0 | 0 | 4 | 6 | 40 | 60 | 100 |
| Total | | | | | | | 27 | 30 | 280 | 420 | 700 |

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College with Potential for Excellence
Linguistic Minority Institution Affiliated to University of Madras
Arumbakkam, Chennai – 600106

POST GRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY

CHOICE BASED CREDIT SYSTEM (CBCS)

OUTCOME BASED EDUCATION (OBE) SYLLABUS

**M.Sc. CHEMISTRY
Programme Code:23**

Academic year 2020 – 2021

Dr. K. Premalatha

Associate Professor and Head

PRINCIPAL
Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106.



DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE

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Arumbakkam

SCHEME OF EXAMINATION - M.Sc. CHEMISTRY

| SEM | PART | TITLE OF THE PAPER | INSTRUCTION HOURS/WEEK | DURATION OF EXAM | MAX. MARKS | | | CREDITS |
|---------------------|------------------------|--|------------------------|------------------|------------|-----|------------|---------|
| | | | | | CIA | ESE | TOTAL | |
| SEMESTER-I | | | | | | | | |
| I | Core I | Organic Chemistry – I | 6 | 3 | 40 | 60 | 100 | 4 |
| | Core II | Inorganic Chemistry-I | 6 | 3 | 40 | 60 | 100 | 4 |
| | Core III | Physical Chemistry-I | 6 | 3 | 40 | 60 | 100 | 4 |
| | Soft Skill I | - | - | 3 | 40 | 60 | 100 | 2 |
| SEMESTER-II | | | | | | | | |
| II | Core IV | Organic Chemistry-II | 6 | 3 | 40 | 60 | 100 | 4 |
| | Core V | Inorganic Chemistry-II | 6 | 3 | 40 | 60 | 100 | 4 |
| | Core VI | Physical Chemistry-II | 6 | 3 | 40 | 60 | 100 | 4 |
| | Core VII | Organic Chemistry Practical - I* | 7 | 6 | 40 | 60 | 100 | 4 |
| | Core VIII | Inorganic Chemistry Practical – I* | 7 | 6 | 40 | 60 | 100 | 4 |
| | Elective I | Physical Chemistry Practical – I* OR Computational Chemistry | 5 | 6 | 40 | 60 | 100 | 3 |
| | | | | | | | | |
| | Soft Skill II | - | - | 3 | 40 | 60 | 100 | 2 |
| | Advanced Course | Analytical Chemistry Practical-I* | 5 | 6 | 40 | 60 | 100 | 3 |
| | Open Elective | Seminar | 7 | - | - | - | - | 3 |
| SEMESTER-III | | | | | | | | |
| III | Core IX | Organic Chemistry-III | 6 | 3 | 40 | 60 | 100 | 4 |
| | Core X | Inorganic Chemistry-III | 6 | 3 | 40 | 60 | 100 | 4 |
| | Core XI | Physical Chemistry-III | 6 | 3 | 40 | 60 | 100 | 4 |
| | | | | | | | | |
| | Soft Skill III | - | - | 3 | 40 | 60 | 100 | 2 |
| | | Internship (not less than 4 weeks) | - | - | - | - | - | 2 |

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| SEMESTER-IV | | | | | | | | |
|---|------------------------|---|---|---|----|----|-----|----|
| IV | Core XII | Organic Chemistry-IV | 6 | 3 | 40 | 60 | 100 | 4 |
| | Core XIII | Inorganic Chemistry-IV | 6 | 3 | 40 | 60 | 100 | 4 |
| | Core XIV | Physical Chemistry-IV | 6 | 3 | 40 | 60 | 100 | 4 |
| | Core XV | Physical Chemistry Practical II* | 5 | 6 | 40 | 60 | 100 | 4 |
| | Elective II | Organic Chemistry Practical II* OR Research Methodology | 7 | 6 | 40 | 60 | 100 | 3 |
| | Elective III | Inorganic Chemistry Practical II* OR Modern Instrumental Techniques | 5 | 6 | 40 | 60 | 100 | 3 |
| | Soft Skill IV | - | | 3 | 40 | 60 | 100 | 2 |
| | Advanced Course | Analytical Chemistry Practical-II* | 5 | 6 | 40 | 60 | 100 | 3 |
| | | Group Project / Review* | - | 6 | 40 | 60 | 100 | 3 |
| TOTAL CREDITS | | | | | | | | |
| Elective:12;CORE: 60;Soft skill: 8;Advanced course:6;Group project:3 Seminar: 3;Internship: 02 | | | | | | | | 94 |

K. P. [Signature]

[Signature]

PRINCIPAL
Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106.

DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE



Department of Biochemistry ***Outcome Based Education (OBE) &*** ***Choice Based credit system***

Programme & Programme Code **M.Sc Biochemistry (24)**

Applicable for students admitted from the academic year 2020-2021 onwards

PRINCIPAL
Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106..

Head
Department of Biochemistry
Dwaraka Doss Goverdhan Doss
Vaishnav College (Shift II)
Arumbakkam, Chennai 600 190.

M.SC I SEMESTER

| Sl. NO | Course category | Course | Credit Distribution | | | | Over all Credits | Total Contact Hours/ Week | Marks | | |
|------------------|-----------------|--|---------------------|---|---|---|------------------|---------------------------|------------|------------|------------|
| | | | L | T | P | S | | | CIE | ES E | Total |
| Part – I | Core paper-I | Biomolecules | 3 | 0 | 1 | 0 | 4 | 4 | 40 | 60 | 100 |
| | Core paper-II | Intermediary Metabolism | 3 | 1 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| | Core paper-III | Plant Biochemistry | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| | Core paper-IV | Enzymes | 2 | 1 | 0 | 1 | 4 | 4 | 40 | 60 | 100 |
| | Elective I | Membrane Biochemistry/Phytochemistry/Stem cell biology | 4 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| | Core Practical | Major Practical –I | 0 | 0 | 3 | 1 | | 5 | 40 | 60 | 100 |
| | Core Practical | Major Practical –II | 0 | 0 | 3 | 0 | | 5 | | | |
| Part – IV | | Soft Skill | 2 | 0 | 0 | 0 | 2 | - | 40 | 60 | 100 |
| Total | | | | | | | 21 | 30 | 280 | 420 | 700 |

M.SC II SEMESTER

| Sl. NO | Course category | Course | Credit Distribution | | | | Over all Credits | Total Contact Hours/ Week | Marks | | |
|------------------|-------------------|--|---------------------|---|---|---|------------------|---------------------------|------------|------------|------------|
| | | | L | T | P | S | | | CIE | SEE | Total |
| Part I | Core Paper-V | Analytical Biochemistry | 3 | 1 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| | Core Paper-VI | Human Physiology and Nutrition | 3 | 1 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| | Core Paper-VII | Molecular Biology | 3 | 0 | 1 | 0 | 4 | 4 | 40 | 60 | 100 |
| | Elective paper II | Biotechnology/Ecology & Population Education/ Microbiology | 3 | 0 | 0 | 1 | 3 | 4 | 40 | 60 | 100 |
| | Elective – III | Bioethics, IPR & HR/ Organization behavior/ Good lab practices | 3 | 0 | 0 | 1 | 3 | 4 | 40 | 60 | 100 |
| | Core practical | Major practical -I | 0 | 0 | 3 | 1 | 4 | 5 | 40 | 60 | 100 |
| | Core Practical | Major Practical –II | 0 | 0 | 4 | 0 | 4 | 5 | 40 | 60 | 100 |
| Part – IV | | Soft Skill | - | - | - | - | 2 | - | 50 | 50 | 100 |
| | | Summer Internship will be carried out during the summer vacation of the first year for 4-6 weeks in any hospital, industry at the end of II semester. Marks will be included in the third Semester Marks Statement. | | | | | 2 | | | | |
| Total | | | | | | | 30 | 30 | 330 | 470 | 800 |

M.SC III SEMESTER

| Sl. NO | Course category | Course | Credit Distribution | | | | Over all Credits | Total Contact Hours/ Week | Marks | | |
|--------------|-------------------|--|---------------------|---|---|---|------------------|---------------------------|------------|------------|------------|
| | | | L | T | P | S | | | CIE | ESE | Total |
| Part I | Core paper VIII | Advanced Clinical biochemistry | 4 | 0 | 0 | 0 | 4 | 5 | 40 | 60 | 100 |
| | Core Paper-IX | Biostatistics | 3 | 0 | 1 | 0 | 4 | 5 | 40 | 60 | 100 |
| | Core Paper-X | Research Methodology | 4 | 0 | 0 | 0 | 4 | 5 | 40 | 60 | 100 |
| | Elective paper-IV | Hormonal biochemistry/ Advanced MLT/ Bioentrepreneurship | 3 | 0 | 0 | 1 | 3 | 5 | 40 | 60 | 100 |
| | Core Practical | Major Practical –III | 40 | 0 | 4 | 0 | - | 5 | 40 | 60 | 100 |
| Part – II | Advanced | Bioinformatics | 4 | 0 | 0 | 0 | 3 | 5 | 40 | 60 | 100 |
| Part – IV | | Soft Skill | 2 | 0 | 0 | 0 | 2 | - | 40 | 60 | 100 |
| Total | | | | | | | 20 | | 280 | 420 | 700 |

M.SC IV SEMESTER

| Sl. NO | Course category | Course | Credit Distribution | | | | Over all Credits | Total Contact Hours/ Week | Marks | | |
|--------------|-----------------|--|---------------------|---|---|---|------------------|---------------------------|------------|------------|------------|
| | | | L | T | P | S | | | CIE | SEE | Total |
| Part - I | Core paper- XI | Immunology | 4 | 0 | 0 | 0 | 4 | 5 | 40 | 60 | 100 |
| | Core Project | Project Dissertation - | 0 | 0 | 3 | 1 | 4 | 10 | 20 | 80 | 100 |
| | Core practical | Major practical-III | 0 | 0 | 4 | 0 | 4 | 5 | 40 | 60 | 100 |
| Part-II | Advanced | Nutrigenomics | 3 | 1 | 0 | 0 | 3 | 5 | 40 | 60 | 100 |
| | Elective V | Lifestyle disease & prevention/ Free radical biology / Healthcare management | 3 | 0 | 0 | 1 | 3 | 5 | 40 | 60 | 100 |
| | Part - IV | Soft Skill | 0 | 0 | 2 | 0 | 2 | | 40 | 60 | 100 |
| Total | | | | | | | 20 | 30 | 220 | 380 | 600 |

**DWARAKA DOSS GOVERDHAN DOSS VAISHNAV
COLLEGE**

(Autonomous)

“College with Potential for Excellence”

(Linguistic Minority Institution),

“Gokulbagh” 833, Periyar E.V.R. Salai,

Arumbakkam, Chennai – 106



Syllabus

M.Sc., Biotechnology (2020-2021)

CHOICE BASED CREDIT SYSTEM

OUTCOME BASED EDUCATION (OBE)

PROGRAMME CODE: 025

POST GRADUATE – DEPARTMENT OF

BIOTECHNOLOGY

(Applicable for students admitted for the academic year 2020-21)

M.D. Balakrishnan
Head
Department of Biotechnology
Dwaraka Doss Goverdhan Doss
Vaishnav College (Shift II)
Arumbakkam, Chennai-600 106.

B. L. S.
PRINCIPAL
Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106.

DEPARTMENT OF BIOTECHNOLOGY

SCHEME OF FIRST SEMESTER M.SC., PROGRAM

| Sl. NO | Course | BOS | Credit Distribution | | | | Over all Credits | Marks | | |
|--------|--|-----|---------------------|---|---|---|------------------|-------|-----|-------|
| | | | L | P | T | S | | CIA | ESE | Total |
| 1. | Core Paper-1 Biochemistry | BT | 4 | 0 | 0 | 0 | 4 | 40 | 60 | 100 |
| 2. | Core Paper-2 Molecular Cell Biology | BT | 4 | 0 | 0 | 0 | 4 | 40 | 60 | 100 |
| 3. | Core Paper-3 Microbiology | BT | 4 | 0 | 0 | 0 | 4 | 40 | 60 | 100 |
| 4. | Core Paper-4 Immunology | BT | 4 | 0 | 0 | 0 | 4 | 40 | 60 | 100 |
| 5. | Elective Paper – 1A* Molecular Genetics | BT | 4 | 0 | 0 | 0 | 3 | 40 | 60 | 100 |
| | Elective Paper – 1B* Ecology, Evolution and Behavior | BT | 4 | 0 | 0 | 0 | 3 | 40 | 60 | 100 |
| | Elective Paper – 1C* Developmental Biology | BT | 4 | 0 | 0 | 0 | 3 | 40 | 60 | 100 |
| 6. | Core Practical - I Biochemistry and Molecular Cell Biology | BT | 0 | 5 | 0 | 0 | 2 | 40 | 60 | 100 |
| 7. | Core Practical - II* Microbiology, Immunology and Immunotechnology | BT | 0 | 5 | 0 | 0 | 2 | 40 | 60 | 100 |
| 8. | Soft Skill – I | | | | | | 2 | 50 | 50 | 100 |
| | Total | | | | | | 25 | 330 | 470 | 800 |

* Any one elective paper should be chosen by the candidate.

DEPARTMENT OF BIOTECHNOLOGY

SCHEME OF SECOND SEMESTER M.SC., PROGRAM

| Sl. No | Course | BOS | Hour Distribution | | | | Over all Credits | Marks | | |
|--------|---|-----|-------------------|---|---|---|------------------|-------|-----|-------|
| | | | L | P | T | S | | CIA | ESE | Total |
| 1. | Core Paper-5 Animal Biotechnology | BT | 4 | 0 | 0 | 0 | 4 | 40 | 60 | 100 |
| 2. | Core Paper-6 Plant Biotechnology | BT | 4 | 0 | 0 | 0 | 4 | 40 | 60 | 100 |
| 3. | Core Paper-7 Environmental Biotechnology | BT | 4 | 0 | 1 | 0 | 4 | 40 | 60 | 100 |
| 4. | Extra Disciplinary – 1 Pharmaceutical Biotechnology | BT | 3 | 0 | 1 | 0 | 3 | 40 | 60 | 100 |
| | Elective Paper – 2A*Forensic Science | BT | 3 | 0 | 1 | 0 | 3 | 40 | 60 | 100 |
| | Elective Paper – 2B* Marine Biotechnology | BT | 3 | 0 | 1 | 0 | 3 | 40 | 60 | 100 |
| | Elective Paper – 2C*DNA Bar Coding Technology | BT | 3 | 0 | 1 | 0 | 3 | 40 | 60 | 100 |
| 5. | Elective Paper – 3A* Animal and Plant Physiology | BT | 3 | 0 | 1 | 0 | 3 | 40 | 60 | 100 |
| | Elective Paper – 3B*Clinical Trials | BT | 3 | 0 | 1 | 0 | 3 | 40 | 60 | 100 |
| | Elective Paper – 3C*Stem cell Biology | BT | 3 | 0 | 1 | 0 | 3 | 40 | 60 | 100 |
| 6. | Core Practical - III Animal Biotechnology, Plant Biotechnology and Environmental Biotechnology | BT | 0 | 6 | 0 | 0 | 2 | 40 | 60 | 100 |
| 7. | Soft Skill – II | | | | | | 2 | 50 | 50 | 100 |
| 8. | Mini project/Internship* | BT | | | | | 2 | | | |
| 9. | Total | | | | | | 27 | 330 | 470 | 800 |

Mini project/
Internship*

* Summer Internship/ Mini project will be carried out during end of the first year for at least 4-6 weeks duration in any industry and institutes. Credits will be included in third Semester mark statement.

* Any one elective paper should be chosen by the candidate

DEPARTMENT OF BIOTECHNOLOGY

SCHEME OF THIRD SEMESTER M.SC., PROGRAM

| Sl. No | Course | BOS | Hour Distribution | | | | Over all Credits | Marks | | | |
|--------|---|-----|-------------------|---|---|---|------------------|-------|-----|-------|-----|
| | | | L | P | T | S | | CIA | ESE | Total | |
| 1. | Core Paper-8 Genetic Engineering | BT | 4 | 0 | 0 | 0 | 4 | 40 | 60 | 100 | |
| 2. | Core Paper-9 Bioprocess Technology | BT | 4 | 0 | 0 | 0 | 4 | 40 | 60 | 100 | |
| 3. | Core Paper-10 Bioinformatics | BT | 4 | 0 | 0 | 0 | 4 | 40 | 60 | 100 | |
| 4. | Core Paper-11 Enzymes & enzyme Technology | BT | 4 | 0 | 0 | 0 | 4 | 40 | 60 | 100 | |
| 5. | Elective Paper – 4A* Advanced Molecular techniques | BT | 4 | 0 | 0 | 0 | 3 | 40 | 60 | 100 | |
| | Elective Paper – 4B* Nano Biotechnology | BT | 4 | 0 | 0 | 0 | 3 | 40 | 60 | 100 | |
| | Elective Paper – 4C* Tissue Engineering | BT | 4 | 0 | 0 | 0 | 3 | 40 | 60 | 100 | |
| 6. | Core Practical - IV Genetic Engineering and Bioprocess Technology | BT | 0 | 5 | 0 | 0 | 2 | 40 | 60 | 100 | |
| 7. | Core Practical - V Bioinformatics and Enzymes & enzyme Technology | BT | 0 | 5 | 0 | 0 | 2 | 40 | 60 | 100 | |
| 8. | Soft Skill – I | | | | | | 2 | 50 | 50 | 100 | |
| | Total | | | | | | | 25 | 330 | 470 | 800 |
| | I | | | | | | | | | | |

Core Practical - IV & V* - Examination will be conducted during the end of the even semester.

DEPARTMENT OF BIOTECHNOLOGY

SCHEME OF FOURTH SEMESTER M.SC., PROGRAM

| Sl. No | Course | BOS | Hour Distribution | | | | Over all Credits | Marks | | |
|--------|---|-----|-------------------|----|---|---|------------------|-------|-----|-------|
| | | | L | P | T | S | | CIA | ESE | Total |
| 1. | Extra Disciplinary – 2 Research Methodology, Bioethics & Biostatistics | BT | 5 | 0 | 0 | 0 | 3 | 40 | 60 | 100 |
| 2. | Open Elective – 1 Herbal Technology | BT | 5 | 0 | 0 | 0 | 3 | 40 | 60 | 100 |
| 3. | Project dissertation & Viva voce | BT | 0 | 15 | 0 | 0 | 6 | 40 | 60 | 100 |
| 4. | Soft Skill – IV | | | | | | 2 | 50 | 50 | 100 |
| | Total | | | | | | 14 | 170 | 230 | 400 |

DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE



DEPARTMENT OF MICROBIOLOGY

Choice Based credit system

Outcome Based Education Syllabus

ACADEMIC YEAR 2020 - 2021

Programme Name : M.Sc. Applied Microbiology

Programme Code : 26

Head

P.G. Research Department of Microbiology
Dwaraka Doss Goverdhan Doss
Vaishnav College (Shift II)
Arumbakkam, Chennai-600 106.

PRINCIPAL

Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106.

SCHEME OF I SEMESTER APPLIED MICROBIOLOGY PROGRAM

| Sl. No | Course Category | Course | Hours Distribution | | | | Over all Credits | Total Contact Hrs/ Wk | Marks | | |
|--------|-----------------|---|--------------------|---|---|---|------------------|-----------------------|-------|-----|-------|
| | | | L | T | P | S | | | CI A | ESE | Total |
| 1 | Core | Fundamentals of Microbiology & Microbial Physiology | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 2 | Core | Medical Microbiology - I | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 3 | Core | Basics in Immunology & Immunotechnology | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 4 | Core | Microbial Genetics & Molecular biology | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 5 | Elective – I-A | Bioinformatics** | 3 | 0 | 0 | 0 | 3 | 3 | 40 | 60 | 100 |
| | | OR | | | | | | | | | |
| 6 | Elective – I-B | Cell Biology** | 3 | 0 | 0 | 0 | 3 | 3 | 40 | 60 | 100 |
| | | OR | | | | | | | | | |
| | Elective – I-C | Forensic Biology** | 3 | 0 | 0 | 0 | 3 | 3 | 40 | 60 | 100 |
| 7 | Core | Practical - I * | 0 | 0 | 4 | 0 | 4 | 11 | 40 | 60 | 100 |
| 8 | | Industrial Visit*** | | | | | EC | | | | |
| 9 | | Soft Skills | | | | | 2 | | | | |
| 10 | | Certificate Course - I**** | | | | | | | | | |
| | | Total | | | | | 25 | 30 | | | |

* Practical Examinations will be conducted in even semester only

** To be opted by Student

*** Industrial Visit (Extra credit - EC)

**** Certificate Courses

SCHEME OF II SEMESTER APPLIED MICROBIOLOGY PROGRAM

| Sl. No | Course category | Course | Hours Distribution | | | | Over all Credits | Total Cont act Hrs/ Wk | Marks | | |
|--------------|------------------|--|--------------------|---|---|---|------------------|------------------------|-------|-----|--------|
| | | | L | T | P | S | | | CI E | SEE | Tota I |
| 1 | Core | Food, Dairy & Industrial Microbiology | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 2 | Core | Medical Microbiology - II | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 3 | Core | Research Methodology and Biostatistics | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 5 | Elective – II-A | Environmental Microbiology** | 3 | 0 | 0 | 0 | 3 | 3 | 40 | 60 | 100 |
| | | OR | | | | | | | | | |
| 6 | Elective – II-B | Tissue Biotechnology** | 3 | 0 | 0 | 0 | 3 | 3 | 40 | 60 | 100 |
| | | OR | | | | | | | | | |
| | Elective – II-C | Marine Biotechnology** | 3 | 0 | 0 | 0 | 3 | 3 | 40 | 60 | 100 |
| | Elective – III-A | Poultry Farming** | 3 | 0 | 0 | 0 | 3 | 3 | 40 | 60 | 100 |
| | | OR | | | | | | | | | |
| | Elective – III-B | Apiculture** | 3 | 0 | 0 | 0 | 3 | 3 | 40 | 60 | 100 |
| | | OR | | | | | | | | | |
| | Elective – III-C | Nutrition & Dietetics** | 3 | 0 | 0 | 0 | 3 | 3 | 40 | 60 | 100 |
| 7 | Core | Practical - II * | 0 | 0 | 4 | 0 | 4 | 12 | 40 | 60 | 100 |
| 8 | | Minor Project/ Internship | | | | | 2 | | | | |
| | | Industrial Visit*** | | | | | EC | | | | |
| 9 | | Soft Skills | | | | | 2 | | | | |
| 10 | | Certificate Course - I**** | | | | | | | | | |
| Total | | | | | | | 26 | 30 | | | |

* Practical Examinations will be conducted in even semester only

** To be opted by Student

*** Industrial Visit (Extra credit - EC)

**** Certificate Courses

SCHEME OF III SEMESTER APPLIED MICROBIOLOGY PROGRAM

| Sl. No | Course Category | Course | Hours Distribution | | | | Over all Credits | Total Contact Hrs/Wk | Marks | | |
|--------|-----------------|---|--------------------|---|---|---|------------------|----------------------|-------|-----|-------|
| | | | L | T | P | S | | | CI A | ESE | Total |
| 1 | Core | Recombinant DNA Technology | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 2 | Core | Principles of Bioprocess Technology & Pharmaceutical Microbiology | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 3 | Elective – IV-A | Bioinstrumentation** | 3 | 0 | 0 | 0 | 3 | 3 | 40 | 60 | 100 |
| | | OR | | | | | | | | | |
| | Elective – IV-B | Soil & Agricultural Microbiology** | 3 | 0 | 0 | 0 | 3 | 3 | 40 | 60 | 100 |
| | | OR | | | | | | | | | |
| | Elective – IV-C | Brewing Technology** | 3 | 0 | 0 | 0 | 3 | 3 | 40 | 60 | 100 |
| 4 | Elective – V-A | Nanobiotechnology ** | 3 | 0 | 0 | 0 | 3 | 3 | 40 | 60 | 100 |
| | | OR | | | | | | | | | |
| | Elective – V-B | Biodegradation Technology** | 3 | 0 | 0 | 0 | 3 | 3 | 40 | 60 | 100 |
| | | OR | | | | | | | | | |
| | Elective – V-C | Biosafety and Clinical Research ** | 3 | 0 | 0 | 0 | 3 | 3 | 40 | 60 | 100 |
| 5 | Elective – VI-A | Aquaculture** | 3 | 0 | 0 | 0 | 3 | 3 | 40 | 60 | 100 |
| | | OR | | | | | | | | | |
| | Elective – VI-B | Laboratory Animals for pre-clinical studies** | 3 | 0 | 0 | 0 | 3 | 3 | 40 | 60 | 100 |
| | | OR | | | | | | | | | |
| | Elective – VI-C | Biodiversity & Conservation** | 3 | 0 | 0 | 0 | 3 | 3 | 40 | 60 | 100 |
| 6 | Core | Practicals - III * | 0 | 0 | 4 | 0 | 4 | 13 | 40 | 60 | 100 |
| 7 | | Industrial Visit*** | | | | | EC | | | | |
| 8 | | Soft Skills | | | | | 2 | | | | |

| | | | | | | | | | | | | |
|--------------|--|--|------------------------------|--|--|--|--|-----------|-----------|--|--|--|
| 9 | | | Certificate Course - III**** | | | | | | | | | |
| Total | | | | | | | | 23 | 30 | | | |

*** Practical Examinations will be conducted in even semester only**

**** To be opted by Student**

***** Industrial Visit (Extra credit - EC)**

****** Certificate Courses**

SCHEME OF IV SEMESTER APPLIED MICROBIOLOGY PROGRAM

| Sl. No | Course category | Course | Hours Distribution | | | | Over all Credits | Total Contact Hours/Week | Marks | | |
|--------------|-----------------|---|--------------------|---|---|---|------------------|--------------------------|-------|-----|-------|
| | | | L | T | P | S | | | CI E | SEE | Total |
| 1 | Core | Entrepreneurship in Microbiology | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 2 | Elective – VII | Bio fertilizer Technology and Organic Farming** | 3 | 0 | 0 | 0 | 3 | 3 | 40 | 60 | 100 |
| 3 | Core | Practical - IV * | 0 | 0 | 4 | 0 | 4 | 10 | 40 | 60 | 100 |
| 4 | | Project/ Dissertation Viva – Voce | 2 | 0 | 2 | 0 | 4 | 13 | | | |
| 5 | | Industrial Visit*** | | | | | EC | | | | |
| 6 | | Soft Skills | | | | | 2 | | | | |
| Total | | | | | | | 17 | 30 | | | |

*** Practical Examinations will be conducted in even semester only**

**** To be opted by Students of other departments**

***** Industrial Visit**



DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE

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Affiliated to University of Madras

Arumbakkam, Chennai – 600 106

PG DEPARTMENT OF COMPUTER SCIENCE


M.Sc. COMPUTER SCIENCE

Course Code: 27

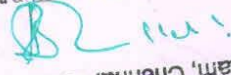
OUTCOME BASED SYLLABUS

With effect from 2020-2021

CHOICE BASED CREDIT SYSTEM


Head of the Department
Department of Computer Science
Dwaraka Doss Goverdhan Doss
Vaishnav College (Shift II)
Arumbakkam, Chennai-600 106.

PRINCIPAL
Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106.


Arumbakkam, Chennai - 600106.
PRINCIPAL
Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106.

SCHEME OF I SEMESTER M.Sc. COMPUTER SCIENCE PROGRAM

| S. No | Course Category | Course Code | Course | Hour Distribution | | | | Over all Credits | Total Contact Hours/ Week | Marks | | |
|--------------|-----------------|-------------|---|-------------------|---|---|---|------------------|---------------------------|------------|------------|------------|
| | | | | L | T | P | S | | | CI A | ES E | Total |
| 1 | Core Paper I | | Design and Analysis of Algorithms | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 2 | Core Paper II | | Programming in Python | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 3 | Core Paper III | | Computer networks | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 4 | Core Paper IV | | Programming in PHP | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 5 | Elective I | | Object Oriented Software Engineering/ Unified Modeling Language/ OOAD | 4 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 6 | Core Paper V | | Practical - I : Python Programming lab | 0 | 0 | 5 | 0 | 2 | 5 | 40 | 60 | 100 |
| 7 | Core Paper VI | | Practical - II : PHP Programming lab | 0 | 0 | 5 | 0 | 2 | 5 | 40 | 60 | 100 |
| 8 | Spoken Tutorial | | Python | 0 | 0 | 0 | 0 | 1 | - | - | - | - |
| 9 | Soft Skills | | Effective Communication in English I | 2 | 0 | 0 | 0 | 2 | - | 50 | 50 | 100 |
| Total | | | | | | | | 26 | 30 | 330 | 470 | 800 |

SCHEME OF II SEMESTER M.Sc. COMPUTER SCIENCE PROGRAM

| S. No | Course Category | Course Code | Course | Hour Distribution | | | | Over all Credits | Total Contact Hours/ Week | Marks | | |
|--------------|-----------------|-------------|--|-------------------|---|---|---|------------------|---------------------------|------------|------------|------------|
| | | | | L | T | P | S | | | CIE | ES E | To tal |
| 1 | Core Paper VII | | Digital Image Processing | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 2 | Core Paper VIII | | Advanced Database Management Systems | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 3 | Core Paper IX | | Enterprise Computing | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 4 | Core Paper X | | Data warehousing and Data mining | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 5 | Elective II | | Mobile Communication/High Speed Networks / WAP and XML | 4 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 6 | Core Paper XI | | Practical - III : Enterprise Computing Lab | 0 | 0 | 5 | 0 | 2 | 5 | 40 | 60 | 100 |
| 7 | Core Paper XII | | Practical - IV : Data mining Lab - using Python | 0 | 0 | 5 | 0 | 2 | 5 | 40 | 60 | 100 |
| 8 | Spoken Tutorial | | LINUX | 0 | 0 | 0 | 0 | 1 | - | - | - | - |
| 9 | Soft Skills | | English for Competitive Exams | 0 | 0 | 0 | 0 | 2 | - | 50 | 50 | 100 |
| 10 | Internship - I | | Summer Internship | 0 | 0 | 0 | 0 | 2 | 3-4 Weeks | | | |
| Total | | | | | | | | 28 | 30 | 330 | 470 | 800 |

SCHEME OF III SEMESTER M.Sc. COMPUTER SCIENCE PROGRAM

| S. No | Course Category | Course Code | Course | Hour Distribution | | | | Over all Credits | Total Contact Hours/ Week | Marks | | |
|--------------|------------------|-------------|---|-------------------|---|---|---|------------------|---------------------------|------------|------------|------------|
| | | | | L | T | P | S | | | CIE | ES E | Total |
| 1 | Core Paper XIII | | Soft Computing | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 2 | Core Paper XIV | | Internet Technology | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 3 | Core Paper XV | | Cloud Computing | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 4 | Core Paper XVI | | Big Data Analytics | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 5 | Elective III | | Cryptography/ Information security/ Internet Security And Computer Forensics | 4 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 6 | Core Paper XVII | | Practical - V : Internet Technology Lab | 0 | 0 | 5 | 0 | 2 | 5 | 40 | 60 | 100 |
| 7 | Core Paper XVIII | | Practical - VI : Big Data Lab | 0 | 0 | 5 | 0 | 2 | 5 | 40 | 60 | 100 |
| 8 | Spoken Tutorial | | JAVA | 0 | 0 | 0 | 0 | 1 | - | - | - | - |
| 9 | Soft Skills | | Personality Development | 0 | 0 | 0 | 0 | 2 | - | 50 | 50 | 100 |
| Total | | | | | | | | 26 | 30 | 330 | 470 | 800 |

SCHEME OF IV SEMESTER M.Sc. COMPUTER SCIENCE PROGRAM

| S. No | Course category | Course Code | Course | Hour Distribution | | | | Over all Credits | Total Contact Hours/ Week | Marks | | |
|--------------|--------------------|-------------|---------------------------------|-------------------|---|---|---|------------------|---------------------------|-----------|------------|------------|
| | | | | L | T | P | S | | | CI E | ES E | To tal |
| 1 | Core Paper XIX | | Project & Viva-Voce | 0 | 0 | 0 | 0 | 15 | - | 40 | 60 | 100 |
| 2 | Spoken Tutorial | | LaTeX | 0 | 0 | 0 | 0 | 1 | - | - | - | - |
| 3 | Soft Skills | | Presentation | 0 | 0 | 0 | 0 | 2 | - | 50 | 50 | 100 |
| 4 | Certificate Course | | MOOC Certificate Course (NPTEL) | 0 | 0 | 0 | 0 | 2 | - | - | - | - |
| Total | | | | | | | | 20 | - | 90 | 110 | 200 |



DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE

(Autonomous)

College with Potential for Excellence, Linguistic Minority Institution

Affiliated to University of Madras

Arumbakkam, Chennai – 600 106

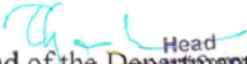
**PG DEPARTMENT OF COMPUTER SCIENCE
M.Sc. INFORMATION TECHNOLOGY**


Course Code: 28

OUTCOME BASED SYLLABUS

With effect from 2020-2021

Choice Based Credit System


Head of the Department
PG Department of Computer Science
Dwaraka Doss Goverdhan Doss
Vaishnav College (Shift II)
Arumbakkam, Chennai-600 106.


PRINCIPAL
Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106.

SCHEMA OF I SEMESTER M.Sc. INFORMATION TECHNOLOGY COURSE

| S. No | Course Category | Course Code | Course | Hours Distribution | | | | Overall credits | Total Contact Hours/Week | Marks | | |
|--------------|------------------------|-------------|---|--------------------|---|---|---|-----------------|--------------------------|------------|------------|------------|
| | | | | L | T | P | S | | | CIA | ESE | TOT |
| 1 | Core Theory-1 | | Operating System. | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 2 | Core Theory-2 | | Computer Organization and Architecture. | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 3 | Core Theory-3 | | Database Management Systems. | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 4 | Core Theory-4 | | Principles of Programming Languages. | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 5 | Core Theory Elective-1 | | Linux System Administration or Windows Programming or Unix Programming. | 4 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 6 | Practical-1 | | Practical – I: OS Lab | 0 | 0 | 5 | 0 | 2 | 5 | 40 | 60 | 100 |
| 7 | Practical-2 | | Practical – II : MYSQL Lab | 0 | 0 | 5 | 0 | 2 | 5 | 40 | 60 | 100 |
| 8 | Soft Skill | | Effective Communication in English I. | 0 | 0 | 0 | 0 | 2 | - | 50 | 50 | 100 |
| 9 | ST** | | Introduction to Computers. | 0 | 0 | 0 | 0 | 1 | - | - | - | - |
| Total | | | | | | | | 26 | 30 | 330 | 470 | 800 |

SCHEMA OF II SEMESTER M.Sc. INFORMATION TECHNOLOGY COURSE

| S. No | Course Category | Course Code | Course | Hours Distribution | | | | Overall credits | Total Contact Hours/Week | Marks | | |
|--------------|------------------------|-------------|--|--------------------|---|---|---|-----------------|--------------------------|------------|------------|------------|
| | | | | L | T | P | S | | | CIA | ESE | TOT |
| 1 | Core Theory-5 | | Data Structures and Algorithms | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 2 | Core Theory-6 | | Computer Networks | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 3 | Core Theory-7 | | Microprocessor and Microcontroller | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 4 | Core Theory-8 | | Programming in PHP | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 5 | Core Theory Elective-2 | | Object Oriented Software Engineering/Unified Modelling Language/OOAD | 3 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 6 | Practical-3 | | Practical – III: Microprocessor Lab | 0 | 0 | 5 | 0 | 2 | 5 | 40 | 60 | 100 |
| 7 | Practical-4 | | Practical – IV: PHP Programming Lab | 0 | 0 | 5 | 0 | 2 | 5 | 40 | 60 | 100 |
| 8 | Soft Skill | | English for Competitive Exams | 0 | 0 | 0 | 0 | 2 | - | 50 | 50 | 100 |
| 9 | ST** | | LINUX | 0 | 0 | 0 | 0 | 1 | - | - | - | - |
| 10 | ---- | | Summer Internship | 0 | 0 | 0 | 0 | 2 | 3-4 weeks | - | - | - |
| Total | | | | | | | | 28 | 30 | 330 | 470 | 800 |

SCHEMA OF III SEMESTER M.Sc. INFORMATION TECHNOLOGY COURSE

| S. No | Course Category | Course Code | Course | Hours Distribution | | | | Overall credits | Total Contact Hours/Week | Marks | | |
|--------------|------------------------|-------------|---|--------------------|---|---|---|-----------------|--------------------------|------------|------------|------------|
| | | | | L | T | P | S | | | CIA | ESE | TOT |
| 1 | Core Theory-9 | | Enterprise Computing | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 2 | Core Theory-10 | | Programming in Python | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 3 | Core Theory-11 | | Data Warehousing and Data Mining | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 4 | Core Theory-12 | | Software Testing | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 5 | Core Theory Elective-3 | | Cryptography/Information Security /Internet Security and Computer Forensics | 4 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 6 | Practical-5 | | Practical – V: Enterprise Computing Lab | 0 | 0 | 5 | 0 | 2 | 5 | 40 | 60 | 100 |
| 7 | Practical-6 | | Practical–VI:Python Lab | 0 | 0 | 5 | 0 | 2 | 5 | 40 | 60 | 100 |
| 8 | Soft Skill | | Personality Development | 0 | 0 | 0 | 0 | 2 | 0 | 50 | 50 | 100 |
| 9 | ST** | | PHP and MYSQL | 0 | 0 | 0 | 0 | 1 | - | - | - | - |
| Total | | | | | | | | 26 | 30 | 330 | 470 | 800 |

SCHEMA OF IV SEMESTER M.Sc. INFORMATION TECHNOLOGY COURSE

| S. No | Course Category | Course Code | Course | Hours Distribution | | | | Overall credits | Total Contact Hours/Week | Marks | | |
|------------------------------------|-----------------------|-------------|--------------------------------|--------------------|---|---|---|-----------------|--------------------------|-----------|------------|------------|
| | | | | L | T | P | S | | | CIA | ESE | TOT |
| 1 | Core | | Project & Viva-Voce | 0 | 0 | 0 | 0 | 15 | - | 40 | 60 | 100 |
| 2 | Soft Skill | | Presentation Skills | 0 | 0 | 0 | 0 | 2 | - | 50 | 50 | 100 |
| 3 | ST** | | LaTeX | 0 | 0 | 0 | 0 | 1 | - | - | - | - |
| 4 | Certificate Course*** | | MOOC Certificate Course(NPTEL) | 0 | 0 | 0 | 0 | 2 | - | - | - | - |
| Total | | | | | | | | 20 | - | 90 | 110 | 200 |
| Total Credits of the Course | | | | | | | | 100 | | | | |



DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE

(Autonomous)

College with Potential for Excellence, Linguistic Minority Institution

Affiliated to University of Madras

Arumbakkam, Chennai - 600 106

**PG AND RESEARCH DEPARTMENT OF MASTER OF
COMPUTER APPLICATIONS (MCA)**

MCA - PROGRAM CODE - 29

SYLLABUS WITH EFFECT FROM 2020-21

OUTCOME BASED EDUCATION (OBE)

UNDER CHOICE BASED CREDIT SYSTEM

PRINCIPAL
Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106.

Associate Professor & Head
P.G. & Research Department of
Computer Applications
Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600 106.

DEPARTMENT OF M.C.A

SCHEME OF I SEMESTER M.C.A PROGRAMME

| Sl. No. | Course Category | Course Code | Course | Credit Distribution | | | | Overall Credits | Total Contact Hours/Week | Marks | | |
|--------------|----------------------|-------------|---|---------------------|---|---|---|-----------------|--------------------------|------------|------------|------------|
| | | | | L | T | P | S | | | CIA | ESE | Total |
| 1 | Core Theory T1 | XX29101 | Principles of Database Management Systems | 3 | 1 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 2 | Core Theory T2 | XX29102 | Advanced Java Programming | 3 | 1 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 3 | Core Theory T3 | XX29103 | Advanced Data Structures and algorithms | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 4 | Core Theory T4 | XX29104 | Operating System Concepts | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 5 | Non-Major Elective 1 | XX29105 | Basics of Statistics | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 6 | Core Practical P1 | XX29106 | Database Programming Lab | 0 | 0 | 5 | 0 | 2 | 5 | 40 | 60 | 100 |
| 7 | Core Practical P2 | XX29107 | Advanced Java Programming Lab | 0 | 0 | 5 | 0 | 2 | 5 | 40 | 60 | 100 |
| 8 | Soft Skills* | ---- | Soft Skills-I | 0 | 0 | 0 | 0 | 2 | 0 | 50 | 50 | 100 |
| 9 | ST** | XX29108 | Spoken Tutorial I-LINUX | 0 | 0 | 0 | 0 | 1 | 0 | - | - | - |
| Total | | | | - | - | - | - | 27 | 30 | 330 | 470 | 800 |

CIA-Continuous Internal Assessment

ESE-End Semester Examination

Soft Skills*- Syllabus framed and approved by English Department.

ST** - Courses offered by IIT Mumbai through Spoken Tutorial Project MHRD Govt. of India. Online Examination will be conducted and qualified students (minimum passing percentage of 40%) will be issued certificate by IIT Mumbai. Students will submit a copy of the certificate after qualifying the online test as a proof to the COE's office to earn 1 credit for the same.

XX -Year of Admission

DEPARTMENT OF M.C.A

SCHEME OF II SEMESTER M.C.A PROGRAMME

| Sl. No. | Course Category | Course Code | Course | Credit Distribution | | | | Over all Credits | Total Contact Hours/Week | Marks | | |
|--------------|------------------------|--|---|---------------------|---|---|---|------------------|--------------------------|------------|------------|------------|
| | | | | L | T | P | S | | | CIA | ESE | Total |
| 1 | Core Theory T5 | XX29209 | Python for Data Science | 3 | 1 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 2 | Core Theory T6 | XX29210 | Mobile Application Development | 3 | 1 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 3 | Core Theory T7 | XX29211 | Fundamentals of Machine Learning | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 4 | Core Theory T8 | XX29212 | Mobile Communications | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 5 | Core Theory Elective 1 | XX29213(A) XX29213(B) XX29213(C) | a. Principles of Digital Image Processing b. Introduction to Multimedia c. Computer Animation | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 6 | Core Practical P3 | XX29214 | Python for Data Science Lab | 0 | 0 | 5 | 0 | 2 | 5 | 40 | 60 | 100 |
| 7 | Core Practical P4 | XX29215 | Mobile Application Development Lab | 0 | 0 | 5 | 0 | 2 | 5 | 40 | 60 | 100 |
| 8 | Intern# | XX29216 | Summer Internship | 0 | 0 | 0 | 0 | 1 | 0 | - | - | - |
| 9 | Soft Skills* | ---- | Soft Skills-II | 0 | 0 | 0 | 0 | 2 | 0 | 50 | 50 | 100 |
| 10 | ST** | XX29217 | Spoken Tutorial II-PYTHON | 0 | 0 | 0 | 0 | 1 | 0 | - | - | - |
| Total | | | | - | - | - | - | 28 | 30 | 330 | 470 | 800 |

CIA-Continuous Internal Assessment

ESE-End Semester Examination

Intern# -Internship will be carried out by the students during their second semester/ summer vacation of the first year with a minimum of 3 weeks/21 days (as per UGC guidelines) and the internship certificate should be sent to the COE office and the same will be included in the Second Semester Marks Statement to earn 1 credit.

Soft Skills*- Syllabus framed and approved by English Department.

ST**- Courses offered by IIT Mumbai through Spoken Tutorial Project MHRD Govt. of India. Online Examination will be conducted and qualified students (minimum passing percentage of 40%) will be issued certificate by IIT Mumbai. Students will submit a copy of the certificate after qualifying the online test as a proof to the COE's office to earn 1 credit for the same.

XX -Year of Admission

DEPARTMENT OF M.C.A

SCHEME OF III SEMESTER M.C.A PROGRAMME

| Sl. No. | Course Category | Course Code | Course | Credit Distribution | | | | Over all Credits | Total Contact Hours/Week | Marks | | |
|--------------|------------------------|--|--|---------------------|---|---|---|------------------|--------------------------|------------|------------|------------|
| | | | | L | T | P | S | | | CIA | ESE | Total |
| 1 | Core Theory T9 | XX29318 | Introduction to Big Data Analytics | 3 | 1 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 2 | Core Theory T10 | XX29319 | Dot Net Programming | 3 | 1 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 3 | Core Theory T11 | XX29320 | Principles of Cloud Computing | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 4 | Core Theory Elective 2 | XX29321(A) XX29321(B) XX29321(C) | a. Computer Forensics and Bioinformatics b. Network Security c. Information Security | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 5 | Core Theory Elective 3 | XX29322(A) XX29322(B) XX29322(C) | a. Introduction to Internet of Things b. Block Chain Technology c. Green Computing | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 6 | Core Practical P5 | XX29323 | Big Data Analytics Lab | 0 | 0 | 5 | 0 | 2 | 5 | 40 | 60 | 100 |
| 7 | Core Practical P6 | XX29324 | Dot Net Programming Lab | 0 | 0 | 5 | 0 | 2 | 5 | 40 | 60 | 100 |
| 8 | Soft Skills* | ----- | Soft Skills-III | 0 | 0 | 0 | 0 | 2 | 0 | 50 | 50 | 100 |
| 9 | ST** | XX29325 | Spoken Tutorial III-GIT | 0 | 0 | 0 | 0 | 1 | 0 | - | - | - |
| Total | | | | - | - | - | - | 27 | 30 | 330 | 470 | 800 |

CIA-Continuous Internal Assessment

ESE-End Semester Examination

Soft Skills*- Syllabus framed and approved by English Department.

ST** - Courses offered by IIT Mumbai through Spoken Tutorial Project MHRD Govt. of India. Online Examination will be conducted and qualified students (minimum passing percentage of 40%) will be issued certificate by IIT Mumbai. Students will submit a copy of the certificate after qualifying the online test as a proof to the COE's office to earn 1 credit for the same.

XX -Year of Admission

DEPARTMENT OF M.C.A

SCHEME OF IV SEMESTER M.C.A PROGRAMME

| Sl. No. | Course Category | Course Code | Course | Credit Distribution | | | | Over all Credits | Total Contact Hours/Week | Marks | | |
|--------------|-----------------------|-------------|--------------------------|---------------------|---|---|---|------------------|--------------------------|-----------|------------|------------|
| | | | | L | T | P | S | | | CIA | ESE | Total |
| 1 | Core Project T13 | XX29426 | Project Work | 0 | 0 | 0 | 0 | 12 | - | 40 | 60 | 100 |
| 2 | Certificate Course ## | XX29427 | Certificate Course-NPTEL | 0 | 0 | 0 | 0 | 2 | - | - | - | - |
| 3 | Soft Skills* | ----- | Soft Skills-IV | 0 | 0 | 0 | 0 | 2 | - | 50 | 50 | 100 |
| 4 | ST** | XX29428 | Spoken Tutorial IV-LATEX | 0 | 0 | 0 | 0 | 1 | - | - | - | - |
| Total | | | | | | | | 17 | - | 90 | 110 | 200 |

CIA-Continuous Internal Assessment

ESE-End Semester Examination

Certificate Course ## -Certificate Courses offered by NPTEL. Students should complete any one Certificate Course (Not Less Than 8 Weeks) within the duration of the course (on or before the completion of the final semester). Students will submit a copy of the certificate issued by NPTEL after qualifying as a proof to the COE's office to earn 2 credits for the same.

Soft Skills*- Syllabus framed and approved by English Department.

ST**- Courses offered by IIT Mumbai through Spoken Tutorial Project MHRD Govt. of India. Online Examination will be conducted and qualified students (minimum passing percentage of 40%) will be issued certificate by IIT Mumbai. Students will submit a copy of the certificate after qualifying the online test as a proof to the COE's office to earn 1 credit for the same.

XX -Year of Admission



DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE
(Autonomous)

College with Potential for Excellence, Linguistic Minority Institution
Affiliated to University of Madras
Arumbakkam, Chennai – 600 106

School of Management

(NEW Curriculum - Syllabus, effective from APRIL – 2020)

Choice Based Credit System (CBCS)

Outcome based Education (OBE)

M.B.A.

Scheme and Syllabus

DG Vaishnav College

#833, EVR Periyar High Road,

Arumbakkam, Chennai – 600106

Phone – 91-44-23635104


Web site: www.dgvcmba.com

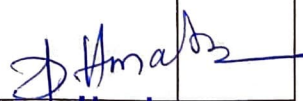
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| 3 | Mapping of POs with PEOs | 3 |
| SCHEME | | |
| 4 | Scheme of First Semester MBA | 4 |
| 5 | Scheme of Second Semester MBA | 5 |
| SYLLABUS | | |
| 6 | Syllabus of First Semester MBA: | 6 - 24 |
| | <ul style="list-style-type: none"> a) MBA-101 Management Process And Organizational Behavior b) MBA102 Statistics For Management c) MBA 103 Economics For Managers d) MBA104 Accounting For Managers e) MBA105 legal Systems In Business f) MBA 106 International Business Management g) MBA107 Entrepreneurship F) MBA-S-101 Soft Skills-I – Advanced Computing Skills | |
| 7 | Syllabus of Second Semester MBA: | 25 |
| | <ul style="list-style-type: none"> a) MBA201 Human Resource Management b) MBA202 Resource Management Techniques c) MBA 203 Operations Management d) MBA204 Financial Management e) MBA205 Research Methodology f) MBA206 Management Information Systems g) MBA207 Marketing Management h) MBA-S-201 Soft Skills-II- Advanced Language & Presentation Skills i) MBA-299 Internship I | |
| | Syllabus of Third Semester MBA: | |
| | <ul style="list-style-type: none"> a) MBA301 Strategic Management b) MBA302 Total Quality Management c) *Elective 1 to 4 | |

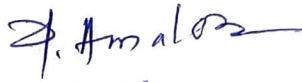

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| | | |
|----|--|--|
| | d) MBA-S-301 Soft Skills-II Spoken and Presentation skills e) MBA-399 Internship 2 | |
| | Syllabus of Fourth Semester MBA: a) *Elective 5 to 8 b) MBA-S-401 Soft Skills-Managerial Skills c) MBA-499 Final Project | |
| 8 | Syllabus of Business Analytics/CIMA | |
| 9 | Appendix A Outcome Based Education | |
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**List of Electives mentioned in Scheme of Syllabus*


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VISION

Our Vision is to emerge as a centre of excellence in Management, imparting value based education to develop transformational leaders with functional expertise and entrepreneurial perspectives.

MISSION

| | |
|----|--|
| M1 | Impart Quality Education to the students in core areas and business management with moral Values through our dedicated team. |
| M2 | Create learning atmosphere that fosters individual intellectual development. |
| M3 | Provide platform for the students to explore their innovative and creative skills. |
| M4 | Promoting activities to cultivate the spirit of Entrepreneurship to the students |
| M5 | Empowering the students in Organizing Events to gain Experience in Team work and Leadership Qualities. |
| M6 | Preparing the students for their role as MBA in society with an awareness of Ethical, Environment, Economics, safety and Quality Issues. |

PROGRAM EDUCATION OBJECTIVES (PEOs)

| | |
|------|--|
| PEO1 | Successful Professionals in Leading National and International Business Enterprise or Research/ Academic or Entrepreneurs. |
| PEO2 | Attitudes and abilities of Leader to adapt the Changing Global Business Scenario. |
| PEO3 | Good Professional Personality and Ethical Values to lead as responsible citizens and competent professionals. |

PEO TO MISSION STATEMENT MAPPING

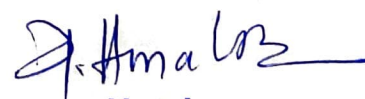
| MISSION STATEMENTS | PEO1 | PEO2 | PEO3 |
|--------------------|------|------|------|
| M1 | 3 | 3 | 3 |
| M2 | 3 | 1 | 2 |
| M3 | 3 | 2 | - |
| M4 | 3 | 3 | 2 |
| M5 | 3 | 2 | - |
| M6 | 3 | 2 | 2 |

CORRELATION

3 - STRONG 2 - MEDIUM 1 - LOW (-) - NO CORRELATION



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PROGRAM OUTCOMES (PO) WITH GRADUATE ATTRIBUTES

| | | |
|------------|---|---|
| PO1 | Domain Knowledge | Apply Knowledge of Management Theories & Practices to solve Business Problems |
| PO2 | Critical Thinking & Decision Making / Problem Solving | Foster Analytical & Critical Thinking abilities for Data – Based Decision Making. |
| PO3 | Leadership | Ability to develop value based Leadership Ability |
| PO4 | Environment & Sustainability | Ability to understand, Analyze & communicate Global, Economic, Legal & Ethical aspects of Business. |
| PO5 | Team Work | Ability to lead themselves & others in the achievement of Organizational Goals, Contributing effectively to a team environment. |
| PO6 | Entrepreneurship | Ability to identify Entrepreneurial opportunities & leverage, Managerial & Leadership Skills for funding leading start – ups as well as growing family Business |
| PO7 | Social Responsiveness & Ethical | Apply ethical principles & commit to Professional Ethics & Responsibility and norms of Management Practices. |
| PO8 | Continuous Learning | Recognize the need and prepare to engage in lifelong learning in the broad context of technology changes leading sustainability. |

Mapping of POs TO PEOs

| PE0/P0 | P01 | P02 | P03 | P04 | P05 | P06 | P07 | P08 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|
| PE01 | 3 | 3 | 2 | 2 | 1 | 1 | 1 | 1 |
| PE02 | 3 | 3 | 3 | 3 | 3 | 2 | 1 | 1 |
| PE03 | 3 | 3 | 2 | 2 | 2 | 1 | 3 | 1 |

CORRELATION

3 - STRONG

2 - MEDIUM


1 - LOW

(-) - NO CORRELATION

PROGRAM SPECIFIC OUTCOMES

PSO 1: Graduates will have ability to Identify, Formulate and analyze the problems relating to Marketing, Finance, Human Resource and Supply chain Management.


PSO 2: Graduates will have an ability to implement / Use appropriate Techniques, Management Skills, and Analytical Techniques and to solve Management Problems.


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DEPARTMENT OF MANAGEMENT STUDIES
SCHEME OF I SEMESTER MBA PROGRAM

| Sl. NO | Course Code | Course | DEPT | Credit Distribution | | | | Over all Credits | Marks | | |
|--------------|-------------|---|------|---------------------|---|---|---|------------------|------------|------------|------------|
| | | | | L | T | P | C | | CIA | SEE | Total |
| 1 | MBA-101 | MANAGEMENT PROCESS AND ORGANIZATIONAL BEHAVIOUR | MBA | 3 | 0 | 1 | 0 | 4 | 40 | 60 | 100 |
| 2 | MBA-102 | STATISTICS FOR MANAGEMENT | MBA | 3 | 0 | 1 | 0 | 4 | 40 | 60 | 100 |
| 3 | MBA-103 | ECONOMICS FOR MANAGERS | MBA | 3 | 0 | 1 | 0 | 4 | 40 | 60 | 100 |
| 4 | MBA-104 | ACCOUNTING FOR MANAGERS | MBA | 3 | 0 | 1 | 0 | 4 | 40 | 60 | 100 |
| 5 | MBA-105 | LEGAL SYSTEMS IN BUSINESS | MBA | 3 | 0 | 1 | 0 | 4 | 40 | 60 | 100 |
| 6 | MBA-106 | INTERNATIONAL BUSINESS MANAGEMENT | MBA | 3 | 0 | 1 | 0 | 4 | 40 | 60 | 100 |
| 7 | MBA-107 | ENTREPRENEURSHIP | MBA | 3 | 0 | 1 | 0 | 4 | 40 | 60 | 100 |
| 8 | MBA-S-101 | SOFT SKILLS-I – ADVANCED COMPUTING SKILLS/ PERSONALITY ENRICHMENT | MBA | 0 | 0 | 2 | 0 | 2 | 40 | 60 | 100 |
| Total | | | | | | | | 30 | 320 | 480 | 800 |


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DEPARTMENT OF MANAGEMENT STUDIES
SCHEME OF II SEMESTER MBA PROGRAM

| Si. No | Course Code | Course | Dept | Credit Distribution | | | | Over All Credits | Marks | | |
|--------------|-------------|---|------|---------------------|---|---|---|------------------|------------|------------|------------|
| | | | | L | T | P | C | | CIA | SEE | Total |
| 1 | MBA-201 | HUMAN RESOURCE MANAGEMENT | MBA | 3 | 0 | 1 | 0 | 4 | 40 | 60 | 100 |
| 2 | MBA-202 | RESOURCE MANAGEMENT TECHNIQUES | MBA | 3 | 0 | 1 | 0 | 4 | 40 | 60 | 100 |
| 3 | MBA-203 | OPERATIONS MANAGEMENT | MBA | 3 | 0 | 1 | 0 | 4 | 40 | 60 | 100 |
| 4 | MBA-204 | FINANCIAL MANAGEMENT | MBA | 3 | 0 | 1 | 1 | 4 | 40 | 60 | 100 |
| 5 | MBA-205 | RESEARCH METHODOLOGY | MBA | 3 | 0 | 1 | 0 | 4 | 40 | 60 | 100 |
| 6 | MBA-206 | MANAGEMENT INFORMATION SYSTEMS | MBA | 3 | 0 | 1 | 0 | 4 | 40 | 60 | 100 |
| 7 | MBA-207 | MARKETING MANAGEMENT | MBA | 3 | 0 | 1 | 0 | 4 | 40 | 60 | 100 |
| 8 | MBA-S-201 | SOFT SKILLS-II-ADVANCED/ TECHNICAL WRITING & PRESENTATION | MBA | 2 | 0 | 0 | 0 | 2 | 40 | 60 | 100 |
| 9 | MBA-299 | INTERNSHIP -1-(DEC - JAN 4 WEEKS) | MBA | 0 | 0 | 0 | 4 | 4 | 25 | 75 | 100 |
| Total | | | | | | | | 34 | 345 | 555 | 900 |



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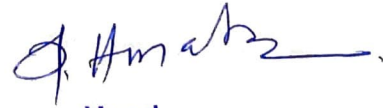
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DEPARTMENT OF MANAGEMENT STUDIES
SCHEME OF III SEMESTER MBA PROGRAM

| Si. No | Course Code | Course | Dept | Credit Distribution | | | | Over All Credits | Marks | | |
|--------------|------------------------|---|------|---------------------|---|---|---|------------------|------------|------------|------------|
| | | | | L | T | P | C | | CIA | SEE | Total |
| 1 | MBA-301 | STRATEGIC MANAGEMENT | MBA | 3 | 0 | 1 | 0 | 4 | 40 | 60 | 100 |
| 2 | MBA-302 | TOTAL QUALITY MANAGEMENT | MBA | 3 | 0 | 1 | 0 | 4 | 40 | 60 | 100 |
| 3 | | ELECTIVE - 1 | MBA | 3 | 0 | 0 | 0 | 3 | 40 | 60 | 100 |
| 4 | | ELECTIVE - 2 | MBA | 3 | 0 | 0 | 1 | 3 | 40 | 60 | 100 |
| 5 | | ELECTIVE - 3 | MBA | 3 | 0 | 0 | 0 | 3 | 40 | 60 | 100 |
| 6 | | ELECTIVE - 4 | MBA | 3 | 0 | 0 | 0 | 3 | 40 | 60 | 100 |
| 7 | MBA-S-301 MBA-S-302 | SOFT SKILLS - SPOKEN AND PRESENTATION SKILL/ CAREER ADVANCEMENT FOR MANAGEERS | MBA | 0 | 0 | 2 | 0 | 2 | 40 | 60 | 100 |
| 11 | MBA 399 | INTERNSHIP 2 - (MAY - JUN - 4Weeks) | MBA | 0 | 0 | 4 | 0 | 4 | 25 | 75 | 100 |
| Total | | | | | | | | 26 | 345 | 555 | 900 |



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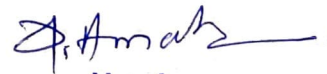
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Vaishnav College (Shift II)
Arumbakkam, Chennai-600 106.

DEPARTMENT OF MANAGEMENT STUDIES
SCHEME OF IV SEMESTER MBA PROGRAM

| Si. No | Course Code | Course | Dept | Credit Distribution | | | | Over All Credits | Marks | | |
|--------------|-------------|---|------|---------------------|---|---|---|------------------|------------|------------|------------|
| | | | | L | T | P | C | | CIA | SEE | Total |
| 1 | | ELECTIVE – 5 | MBA | 3 | 0 | 0 | 0 | 3 | 40 | 60 | 100 |
| 2 | | ELECTIVE – 6 | MBA | 3 | 0 | 0 | 1 | 3 | 40 | 60 | 100 |
| 3 | | ELECTIVE – 7 | MBA | 3 | 0 | 0 | 0 | 3 | 40 | 60 | 100 |
| 4 | | ELECTIVE – 8 | MBA | 3 | 0 | 0 | 0 | 3 | 40 | 60 | 100 |
| 5 | MBA-S-401 | SOFT-SKILLS – MANAGERIAL SKILLS/ RURAL DEVELOPMENT PROGRAMME | MBA | 0 | 0 | 2 | 0 | 2 | 40 | 60 | 100 |
| 6 | MBA-499 | FINAL PROJECT – (DEC-JAN- 8 WEEKS) | MBA | 0 | 0 | 8 | 0 | 8 | 50 | 150 | 200 |
| 7 | MBA-EEC-301 | EMPLOYABILITY ENRICHMENT COURSE CIMA/BUSINESS ANALYTICS (IoA) | MBA | 0 | 0 | 2 | 0 | 2 | | | |
| 8 | MBA-EEC-302 | MOOCS Course (Optional) | MBA | 0 | 0 | 2 | 0 | 1 | | | |
| 9 | MBA-EEC-303 | INTERNATIONAL IMMERSION PROGRAM (Optional) | MBA | 0 | 0 | 2 | 0 | 1 | | | |
| Total | | | | | | | | 26 | 250 | 450 | 700 |

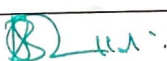
| | | | | |
|--------------------|------------|-------------|-------------|-------------|
| GRAND TOTAL | 116 | 1220 | 1980 | 3200 |
|--------------------|------------|-------------|-------------|-------------|



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Arumbakkam, Chennai-600 106.

LIST of ELECTIVES for MBA (Full Time)-Semester III and IV

| Course Code | Course Title | Dept. | L | T | P | C |
|----------------------------------|---|-------|---|---|---|---|
| FINANCE | | | | | | |
| FIN-301 | INVESTMENT MANAGEMENT | MBA | 3 | 0 | 0 | 3 |
| FIN-302 | INTERNATIONAL FINANCIAL MANAGEMENT | MBA | 3 | 0 | 0 | 3 |
| FIN-303 | MERCHANT BANKING AND FINANCIAL SERVICES | MBA | 3 | 0 | 0 | 3 |
| FIN-401 | FINANCIAL DERIVATIVES | MBA | 3 | 0 | 0 | 3 |
| FIN-402 | RISK MANAGEMENT AND INSURANCE | MBA | 3 | 0 | 0 | 3 |
| FIN-403 | CORPORATE TAXATION | MBA | 3 | 0 | 0 | 3 |
| MARKETING | | | | | | |
| MKT-301 | SERVICES MARKETING | MBA | 3 | 0 | 0 | 3 |
| MKT-302 | INTEGRATED MARKETING COMMUNICATION | MBA | 3 | 0 | 0 | 3 |
| MKT-303 | GLOBAL MARKETING MANAGEMENT | MBA | 3 | 0 | 0 | 3 |
| MKT-401 | SALES AND DISTRIBUTION MANAGEMENT | MBA | 3 | 0 | 0 | 3 |
| MKT-402 | RETAIL MANAGEMENT | MBA | 3 | 0 | 0 | 3 |
| MKT-404 | SOCIAL MEDIA MARKETING | MBA | 3 | 0 | 0 | 3 |
| HUMAN RESOURCE MANAGEMENT | | | | | | |
| HR-301 | STRATEGIC HUMAN RESOURCE MANAGEMENT AND DEVELOPMENT | MBA | 3 | 0 | 0 | 3 |
| HR-302 | LABOUR LEGISLATIONS | MBA | 3 | 0 | 0 | 3 |
| HR-303 | GLOBAL HUMAN RESOURCE MANAGEMENT | MBA | 3 | 0 | 0 | 3 |
| HR-305 | LEADERSHIP AND ORGANISATIONAL EFFECTIVENESS | MBA | 3 | 0 | 0 | 3 |
| HR-401 | KNOWLEDGE MANAGEMENT | MBA | 3 | 0 | 0 | 3 |
| HR-402 | TRAINING AND HUMAN PERFORMANCE ENHANCEMENT | MBA | 3 | 0 | 0 | 3 |
| SYSTEMS | | | | | | |


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| | | | | | | | |
|--|---|-----|---|---|---|---|---|
| SYS-301 | BIG DATA TECHNOLOGY | MBA | 3 | 0 | 0 | 0 | 3 |
| SYS-302 | DATA MINING AND WAREHOUSING | MBA | 3 | 0 | 0 | 0 | 3 |
| SYS-303 | CLOUD COMPUTING | MBA | 3 | 0 | 0 | 0 | 3 |
| SYS-401 | E – COMMERCE TECHNOLOGY AND MANAGEMENT | MBA | 3 | 0 | 0 | 0 | 3 |
| SYS-402 | EMERGING TECHNOLOGIES FOR MANAGEMENT | MBA | 3 | 0 | 0 | 0 | 3 |
| SYS-403 | ENTERPRISE RESOURCE PLANNING | MBA | 3 | 0 | 0 | 0 | 3 |
| SUPPLY CHAIN MANAGEMENT ELECTIVES | | | | | | | |
| SCM-301 | INTEGRATED SUPPLY CHAIN MANAGEMENT | MBA | 3 | 0 | 0 | 0 | 3 |
| SCM-302 | PURCHASING MANAGEMENT | MBA | 3 | 0 | 0 | 0 | 3 |
| SCM-401 | INTERNATIONAL LOGISTICS AND MANAGEMENT OF GLOBAL SUPPLY CHAIN | MBA | 3 | 0 | 0 | 0 | 3 |
| SCM-402 | TRANSPORTATION AND WAREHOUSING MANEGEMENT | MBA | 3 | 0 | 0 | 0 | 3 |

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Arumbakkam, Chennai – 106.

Post Graduate & Research Department of Economics

M.A.Economics – Programme Code – 31

B.A. Economics – Programme Code – 01

M.Phil Economics – Programme Code - 51

SYLLABUS – With effect from 2020-21 onwards

CHOICE BASED CREDIT SYSTEM

OUTCOME BASED EDUCATION

PRINCIPAL

**Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106.**

HOD Sign

**Dr. T.S. PREMA, M.A., M.Phil., Ph.D.,
Associate Professor & Head
Post Graduate &
Research Department of Economics (Shift I)
Dwaraka Doss Goverdhan Doss Vaishnav College
Arumbakkam, Chennai - 600106.**

M.A. Economics

SEMESTER – I

| | COURSE TITLE | CREDITS | CIA | ESE | Total |
|--|---|----------------|------------|------------|--------------|
| | Core Paper I – Micro Economics - I | 4 | 40 | 60 | 100 |
| | Core Paper II – Statistical Methods - I | 4 | 40 | 60 | 100 |
| | Core PaperII I – Research Methodology | 4 | 40 | 60 | 100 |
| | Core Paper IV- Health Economics | 4 | 40 | 60 | 100 |
| | Elective I- Organisational and Behaviour Economics | 4 | 40 | 60 | 100 |
| | Soft Skills- I | 2 | 40 | 60 | 100 |
| | | | | | |
| | Total | 22 | | | |

SEMESTER – II

| | COURSE TITLE | CREDITS | CIA | ESE | Total |
|--|--|----------------|------------|------------|--------------|
| | Core Paper V –Micro Economics - II | 4 | 40 | 60 | 100 |
| | Core Paper VI– Statistics - II | 4 | 40 | 60 | 100 |
| | Core Paper VII- –Indian Economic Development and Policy | 4 | 40 | 60 | 100 |
| | Core Paper VIII- – Monetary Economics | 4 | 40 | 60 | 100 |
| | Elective II- Managerial Economics | 4 | 40 | 60 | 100 |
| | Soft Skills- II | 2 | 40 | 60 | 100 |
| | | | | | |
| | Total | 22 | | | |

SEMESTER – III

| | COURSE TITLE | CREDITS | CIA | ESE | Total |
|--|--|----------------|------------|------------|--------------|
| | Core Paper – IX- Macro Economics-I | 4 | 40 | 60 | 100 |
| | Core Paper X- Public Economics - I | 4 | 40 | 60 | 100 |
| | Core Paper XI – International Economics - I | 4 | 40 | 60 | 100 |
| | Core Paper XII- Financial Markets and Services -I | 4 | 40 | 60 | 100 |
| | Elective III – Entrepreneurial Development | 4 | 40 | 60 | 100 |
| | Soft Skills- III | 2 | 40 | 60 | 100 |
| | | | | | |
| | Total | 22 | | | |

SEMESTER – IV

| | COURSE TITLE | CREDITS | CIA | ESE | Total |
|--|---|----------------|------------|------------|--------------|
| | Core Paper – XIII- Macro Economics II | 4 | 40 | 60 | 100 |
| | Core Paper XIV- Public Economics - II | 4 | 40 | 60 | 100 |
| | Core Paper XV – International Economics - II | 4 | 40 | 60 | 100 |
| | Core Paper XVI- Financial Markets and Services -II | 4 | 40 | 60 | 100 |
| | Elective IV – Human Resource Management | 4 | 40 | 60 | 100 |
| | Elective IV – Economics of Education | 4 | 40 | 60 | 100 |
| | Soft Skill- IV | 2 | 40 | 60 | 100 |
| | Internship | 3 | | | |
| | Total | 25 | | | |
| | Elective Offered for Other Departments-Contemporary Economic Issues | 4 | 40 | 60 | 100 |



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DEPARTMENT OF SOCIAL WORK

**CHIOCE BASED CREDIT SYSTEM (CBCS)
OUTCOME BASED EDUCATION /LEARNING (OBE)
SYLLABUS 2020-2021**

MASTER OF SOCIAL WORK (MSW)

Academic Year 2020 - 2021

Sulagna
Head

**P.G. Department of Social Work
Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai-600 106.**

**PRINCIPAL
Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106.**

DEPARTMENT OF SOCIAL WORK (2020-2021 BATCH ONWARDS)

FIRST SEMESTER

| Sl. No | Course Category | Course Code | Course | Hours Distribution | | | | Over all Credits | Total Contact Hours/Week | Marks | | |
|--------------|-----------------------------|-------------|------------------------------------|--------------------|---|---|---|------------------|--------------------------|------------|------------|------------|
| | | | | L | T | P | S | | | CI A | ESE | Total |
| 1 | Core | 2033101 | PAPER I – Social Work Profession | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 2 | Core | 2033102 | PAPER II–Working with Individuals | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 3 | Core | 2033103 | PAPER III – Working with Groups | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 4 | Core | 2033105 | Paper IV- Field Work Practicum – I | 0 | 1 | 1 | 5 | 4 | 16 | 50 | 50 | 100 |
| 5 | Specialized/Advanced Course | 2033104 | Paper V- Human Behaviour | 4 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 6 | Soft Skill I | 2050101 | Effective Communication in English | 2 | 0 | 0 | 0 | 2 | 2 | 50 | 50 | 100 |
| Total | | | | | | | | 21 | 34 | 260 | 340 | 600 |



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SECOND SEMESTER

| Sl. No | Course category | Course Code | Course | Hours Distribution | | | | Over All Credits | Total Contact Hours/Week | Marks | | |
|--------------|-------------------------|-----------------------|--|--------------------|---|---|---|------------------|--------------------------|------------|------------|------------|
| | | | | L | T | P | S | | | CI A | ESE | Total |
| 1 | CORE | 2033206 | Paper VI- Social Work Research | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 2 | CORE | 2033207 | Paper VII-Working with Communities | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 3 | CORE | 2033208 | Paper VIII- Social Welfare Administration and Social Legislation | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 4 | CORE | 2033210 | Paper IX- Field Work Practicum – II | 0 | 1 | 1 | 5 | 4 | 16 | 50 | 50 | 100 |
| 5 | GENERIC ELECTIVE COURSE | 2033209(A)/2033209(B) | Paper X- Entrepreneurship/Managerial Business Communication | 4 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 6 | SOFT SKILL-II | 2050201 | English for Competitive exams. | 2 | 0 | 0 | 0 | 2 | 2 | 50 | 50 | 100 |
| Total | | | | | | | | 21 | 34 | 260 | 340 | 600 |

***Summer Internship 2 Credits (with Duration of a Month /26 Working days)
Course Code : 2060301**

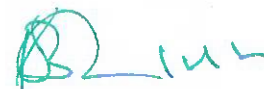


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THIRD SEMESTER

| Sl. No | Course Category | Course Code | Course | Hours Distribution | | | | Overall Credits | Total Contact Hours/Week | Marks | | |
|--------------|-------------------------------------|-----------------------|--|--------------------|---|---|---|-----------------|--------------------------|------------|------------|------------|
| | | | | L | T | P | S | | | CI A | ESE | Total |
| 1 | CORE | 2033311 | Paper XI- Specialization Paper – I (Labour Legislation) | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 2 | CORE | 2033312 | PAPER XII- Specialization Paper – II (Human Resource Management) | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 3 | CORE | 2033316 | Paper XIII Field Work Practicum – III | 1 | 0 | 1 | 0 | 4 | 16 | 50 | 50 | 100 |
| 4 | Discipline specific elective course | 2033314(A)/2033314(B) | PAPER XIV- Work Place Counseling /Industrial Social Work / | 4 | 1 | 0 | 0 | 3 | 3 | 40 | 60 | 100 |
| 5 | CORE | 2033313 | PAPER XV-Employee Relations Management | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 6 | Soft Skills-3 | 2050301 | Computer Skills | 1 | 0 | 1 | 0 | 2 | 2 | 50 | 50 | 100 |
| 7 | Open Elective | 2033315 | NGO Management | 4 | 0 | 0 | 0 | 3 | 3 | 40 | 60 | 100 |
| Total | | | | | | | | 24 | 36 | 250 | 350 | 700 |

**** Winter Internship on Corporate Social Responsibility carries 2 credits.(with the duration of 1 month /26 working days) Course Code:2033422**



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FOURTH SEMESTER

| Sl. No | Course category | Course Code | Course | Hours Distribution | | | | Over All Credits | Total Contact Hours/Week | Marks | | |
|--------------|-----------------------------|-------------|---|--------------------|---|---|---|------------------|--------------------------|------------|------------|------------|
| | | | | L | T | P | S | | | CI A | ESE | Total |
| 1 | CORE | 2033417 | PAPER XVI Specialisation paper III Strategic Human Resource Management | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 2 | Specialized/Advanced Course | 2033418 | PAPER XVII Specialization Paper - IV (Trends in Human Resource Development) | 3 | 1 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 3 | CORE | 2033419 | PAPER XIX (Organisational Behaviour & Organisational Development) | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 4 | CORE | 2033420 | Paper XVIII Field Work Practicum – IV | 0 | 1 | 1 | 0 | 4 | 16 | 50 | 50 | 100 |
| 5 | CORE | 2033421 | Paper XX Research Project | 0 | 4 | 0 | 0 | 4 | 15 | 10 | 100 | 200 |
| 6 | Soft Skills-4 | 2050401 | Computer Programming Skills-Introduction to HTML | 1 | 0 | 1 | 0 | 2 | 2 | 50 | 50 | 100 |
| Total | | | | | | | | 21 | 45 | 320 | 380 | 700 |



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**DWARAKA DOSS GOVERDHAN DOSS VAISHNAV
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CHENNAI – 600106**

CHOICE BASED CREDIT SYSTEM (CBCS)

OUTCOME BASED EDUCATION (OBE)

DEPARTMENT OF M.A HRM



2020-2021

Head

Head
P.G. Department of
Human Resources Management
Dwaraka Doss Goverdhan Doss
Vaishnav College (Shift II)
Arumbakkam. 06.

Principal


PRINCIPAL
Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106.


DEPARTMENT OF M.A HRM

(2020 -21 ONWARDS)

FIRST SEMESTER

| Sl. No | Course Category | Course Code | Course | Hours Distribution | | | | Overall Credits | Total Contact Hours /Week | Marks | | |
|--------|--------------------|-------------|---|--------------------|---|---|---|-----------------|---------------------------|-------|-----|-------|
| | | | | L | T | P | S | | | C I A | ESE | Total |
| 1 | CORE | 2034101 | Learning and Development | 4 | 0 | 0 | 1 | 4 | 5 | 40 | 60 | 100 |
| 2 | CORE | 2034102 | Labour Legislation | 4 | 0 | 0 | 1 | 4 | 5 | 40 | 60 | 100 |
| 3 | CORE | 2034103 | Fundamentals of Human Resource Management | 4 | 0 | 0 | 1 | 4 | 5 | 40 | 60 | 100 |
| 4 | Specialized course | 2034104 | Dynamics of Human Behaviour | 4 | 0 | 0 | 1 | 3 | 5 | 40 | 60 | 100 |
| 5 | General Elective | 2034105 A | Organizational Counselling | 4 | 0 | 0 | 1 | 3 | 5 | 40 | 60 | 100 |
| | | 2034105 B | Managerial Concepts and Business Ethics | 4 | 0 | 0 | 1 | 3 | 5 | 40 | 60 | 100 |
| 6 | Soft Skill I | 2050101 | English for effective communication | 4 | 0 | 0 | 1 | 2 | 5 | 50 | 50 | 100 |


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 Arumbakkam, Chennai - 600106.

SECOND SEMESTER

| Sl. NO | Course category | Course Code | Course | Hours Distribution | | | | Over all Credits | Total Contact Hours /Week | Marks | | |
|--------|--------------------|-------------|---|--------------------|---|---|---|------------------|---------------------------|-------|-----|-------|
| | | | | L | T | P | S | | | CIA | ESE | Total |
| 1 | CORE | 2034107 | Industrial Relations and Employee Welfare | 4 | 0 | 0 | 1 | 4 | 5 | 40 | 60 | 100 |
| 2 | CORE | 2034108 | Organizational Behaviour | 4 | 0 | 0 | 1 | 4 | 5 | 40 | 60 | 100 |
| 3 | CORE | 2034109 | Performance Management System | 4 | 0 | 0 | 1 | 4 | 5 | 40 | 60 | 100 |
| 4 | Specialized Course | 2034110 | Global Human Resource Management | 4 | 0 | 0 | 1 | 3 | 5 | 40 | 60 | 100 |
| 5 | Internal Elective | 2034111 (A) | Total Quality Management | 4 | 0 | 0 | 1 | 3 | 5 | 40 | 60 | 100 |
| | | 2034111 (B) | Managerial Economics for HRM | 4 | 0 | 0 | 1 | 2 | 5 | 50 | 50 | 100 |
| 6 | Soft skill - II | 2034201 | English for Competitive Exams | 4 | 0 | 0 | 1 | 2 | 5 | 50 | 50 | 100 |

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Vaishnav College
Arumbakkam, Chennai - 600106.

THIRD SEMESTER

| Sl. No | Course Category | Course Code | Course | Hours Distribution | | | | Overall Credits | Total Contact Hours/Week | Marks | | |
|--------|--------------------|-------------|-------------------------------------|--------------------|---|---|---|-----------------|--------------------------|-------|-----|-------|
| | | | | L | T | P | S | | | CIA | ESE | Total |
| 1 | CORE | 2034312 | Research Methodology | 4 | 0 | 0 | 1 | 4 | 5 | 40 | 60 | 100 |
| 2 | CORE | 2034313 | Industrial Law | 4 | 0 | 0 | 1 | 4 | 5 | 40 | 60 | 100 |
| 3 | CORE | 2034314 | Compensation Benefit Analysis | 4 | 0 | 0 | 1 | 4 | 5 | 40 | 60 | 100 |
| 4 | CORE | 2034315 | Strategic Human Resource Management | 4 | 0 | 0 | 1 | 4 | 5 | 40 | 60 | 100 |
| 5 | Specialised Course | 2034316 | Corporate Social Responsibility | 4 | 0 | 0 | 1 | 3 | 5 | 40 | 60 | 100 |
| 6 | Open elective | 2034317 | Organizational Softskill | 4 | 0 | 0 | 1 | 3 | 5 | 40 | 60 | 100 |
| 7 | Soft skill - III | 2050301 | French for Beginners | 4 | 0 | 0 | 1 | 2 | 5 | 50 | 50 | 100 |

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(Signature)

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 Vaishnav College
 Arumbakkam, Chennai - 600106.

FOURTH SEMESTER

| Sl. No | Course category | Course Code | Course | Hours Distribution | | | | Over all Credits | Total Contact Hours/Week | Marks | | |
|--------|-----------------|-------------|----------------------------|--------------------|---|---|---|------------------|--------------------------|-------|-----|-------|
| | | | | L | T | P | S | | | CIA | ESE | Total |
| 1 | CORE | 2034418 | Organizational Development | 4 | 0 | 0 | 1 | 4 | 5 | 40 | 60 | 100 |
| 2 | CORE | 2034419 | Human Resource Development | 4 | 0 | 0 | 1 | 4 | 5 | 40 | 60 | 100 |
| 3 | CORE | 2034420 | Project viva voce | | | 5 | | 8 | 5 | 150 | 50 | 200 |
| 4 | Soft Skill -IV | 2050401 | French for Beginners | 4 | | | 1 | 2 | 5 | 50 | 50 | 100 |



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B.COM [HONOURS]

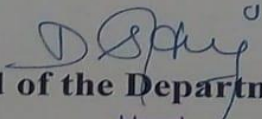
Programme Code : 35

OBE SYLLABUS

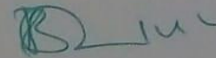
CHOICE BASED CREDIT SYSTEM

Approved by board of Studies on 12th March, 2020

EFFECTIVE FROM ACADEMIC YEAR 2020-21


Head of the Department

Head
Department of B.Com., Honours
Dwaraka Doss Goverdhan
Vaishnav College (Shri ...)
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Dwaraka Doss Goverdhan Doss
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Arumbakkam, Chennai - 600106.

SCHEME OF FIRST SEMESTER

| S No | Part | Course | Hours Distribution | | | | Credits | Marks | | |
|--------------|------|---|--------------------|---|---|---|-----------|-------|-----|-------|
| | | | L | P | T | S | | CIA | ESE | Total |
| 1 | I | Language –I | 4 | 0 | 0 | 0 | 3 | 40 | 60 | 100 |
| 2 | II | English – I | 4 | 0 | 0 | 0 | 3 | 40 | 60 | 100 |
| 3 | III | Core Paper – I Financial Accounting – I | 6 | 0 | 0 | 0 | 4 | 40 | 60 | 100 |
| 4 | III | Core Paper – II Financial Analytics & Control (CMA1A) | 4 | 0 | 0 | 0 | 4 | 40 | 60 | 100 |
| 5 | III | Core Paper – III Modern Banking | 4 | 0 | 0 | 0 | 4 | 40 | 60 | 100 |
| 6 | III | Core Paper-IV Business Economics | 4 | 0 | 0 | 0 | 4 | 40 | 60 | 100 |
| 7 | IV | Non Major Elective/Basic Tamil | 2 | 0 | 0 | 0 | 2 | 50 | 50 | 100 |
| 8 | IV | Skill based subjects – Soft Skills -1 | 2 | 0 | 0 | 0 | 2 | 50 | 50 | 100 |
| 9 | IV | Internship – I (Two Weeks) | | | | | 2 | 75 | 25 | 100 |
| TOTAL | | | 30 | | | | 28 | | | |

SCHEME OF SECOND SEMESTER

| S No | Part | Course | Hours Distribution | | | | Credits | Marks | | |
|--------------|------|--|--------------------|---|---|---|-----------|-------|-----|-------|
| | | | L | P | T | S | | CIA | ESE | Total |
| 1 | I | Language –II | 4 | 0 | 0 | 0 | 3 | 40 | 60 | 100 |
| 2 | II | English – II | 4 | 0 | 0 | 0 | 3 | 40 | 60 | 100 |
| 3 | III | Core Paper – V Financial Accounting – II | 6 | 0 | 0 | 0 | 4 | 40 | 60 | 100 |
| 4 | III | Core Paper – VI Financial Planning & Performance (CMA1B) | 4 | 0 | 0 | 0 | 4 | 40 | 60 | 100 |
| 5 | III | Core Paper – VII Principles of Management | 4 | 0 | 0 | 0 | 4 | 40 | 60 | 100 |
| 6 | III | Core Paper- VIII Business Policy and Environment | 4 | 0 | 0 | 0 | 4 | 40 | 60 | 100 |
| 7 | IV | Non Major Elective/Basic Tamil | 2 | 0 | 0 | 0 | 2 | 50 | 50 | 100 |
| 8 | IV | Skill based subjects – Soft Skills –II | 2 | 0 | 0 | 0 | 2 | 50 | 50 | 100 |
| 9 | IV | Internship – II (Four Weeks) | | | | | 4 | 75 | 25 | 100 |
| TOTAL | | | 30 | | | | 30 | | | |

SCHEME OF THIRD SEMESTER

| S No | Part | Course | Hours Distribution | | | | Credits | Marks | | |
|--------------|------|--|--------------------|---|---|---|-----------|-------|-----|-------|
| | | | L | P | T | S | | CIA | ESE | Total |
| 1 | III | Core Paper- IX Business Mathematics | 6 | 0 | 0 | 0 | 4 | 40 | 60 | 100 |
| 2 | III | Core Paper- X Financial Reporting (CMAIC) | 4 | 0 | 0 | 0 | 4 | 40 | 60 | 100 |
| 3 | III | Core Paper- XI Strategic Financial Management - I (CMA2A) | 4 | 0 | 0 | 0 | 4 | 40 | 60 | 100 |
| 4 | III | Core Paper – XII Business Laws | 4 | 0 | 0 | 0 | 4 | 40 | 60 | 100 |
| 5 | III | Core Paper – XIII E- Accounting | 0 | 5 | 0 | 0 | 4 | 40 | 60 | 100 |
| 6 | III | Core Paper- XIV Green Business | 4 | 0 | 0 | 0 | 4 | 40 | 60 | 100 |
| 7 | IV | Environmental Studies (<i>Examination will be held in semester IV</i>) | 1 | 0 | 0 | 0 | | | | |
| 8 | IV | Skill based subjects – Soft Skills –III | 2 | 0 | 0 | 0 | 2 | 50 | 50 | 100 |
| 9 | IV | Internship – III (Two Weeks) | | | | | 2 | 75 | 25 | 100 |
| TOTAL | | | 30 | | | | 28 | | | |

SCHEME OF FOURTH SEMESTER

| S No | Part | Course | Hours Distribution | | | | Credits | Marks | | |
|--------------|------|---|--------------------|---|---|---|-----------|-------|-----|-------|
| | | | L | P | T | S | | CIA | ESE | Total |
| 1 | III | Core Paper- XV Business Statistics & Operation Research | 6 | 0 | 0 | 0 | 4 | 40 | 60 | 100 |
| 2 | III | Core Paper- XVI Strategic Financial Management – II (CMA2B) | 4 | 0 | 0 | 0 | 4 | 40 | 60 | 100 |
| 3 | III | Core Paper - XVII Human Resource Management | 4 | 0 | 0 | 0 | 4 | 40 | 60 | 100 |
| 4 | III | Core Paper - XVIII Company Law | 4 | 0 | 0 | 0 | 4 | 40 | 60 | 100 |
| 5 | III | Core Paper- XIX Financial Services | 4 | 0 | 0 | 0 | 4 | 40 | 60 | 100 |
| 6 | III | Core Paper- XX Indirect Taxation | 5 | 0 | 0 | 0 | 4 | 40 | 60 | 100 |
| 7 | IV | Environmental Studies | 1 | 0 | 0 | 0 | 2 | 40 | 60 | 100 |
| 8 | IV | Skill based subjects – Soft Skills –IV | 2 | 0 | 0 | 0 | 2 | 50 | 50 | 100 |
| 9 | IV | Internship – IV(Four Weeks) | | | | | 4 | 75 | 25 | 100 |
| TOTAL | | | 30 | | | | 32 | | | |

SCHEME OF FIFTH SEMESTER

| S No | Part | Course | Hours Distribution | | | | Credits | Marks | | |
|--------------|------|---|--------------------|---|---|---|-----------|-------|-----|-------|
| | | | L | P | T | S | | CIE | SEE | Total |
| 1 | III | Core Paper- XXI Cost Accounting | 6 | 0 | 0 | 0 | 4 | 40 | 60 | 100 |
| 2 | III | Core Paper- XXII Direct Taxation -I | 6 | 0 | 0 | 0 | 4 | 40 | 60 | 100 |
| 3 | III | Core Paper- XXIII Corporate Ethics and Governance | 4 | 0 | 0 | 0 | 4 | 40 | 60 | 100 |
| 4 | III | Core Paper - XXIV Entrepreneurial Development | 4 | 0 | 0 | 0 | 4 | 40 | 60 | 100 |
| 5 | III | Core Paper –XXV Research Methodology | 4 | 0 | 0 | 0 | 4 | 40 | 60 | 100 |
| 6 | III | Elective –I Strategic Planning and Management / Logistics and Supply Chain Management | 4 | 0 | 0 | 0 | 4 | 40 | 60 | 100 |
| 7 | IV | Value Education | 2 | 0 | 0 | 0 | 2 | 50 | 50 | 100 |
| 8 | IV | Internship – V (Two Weeks) | | | | | 2 | 75 | 25 | 100 |
| TOTAL | | | 30 | | | | 28 | | | |

SCHEME OF SIXTH SEMESTER

| S No | Part | Course | Hours Distribution | | | | Credits | Marks | | |
|--------------|------|---|--------------------|---|---|---|-----------|-------|-----|-------|
| | | | L | P | T | S | | CIA | ESE | Total |
| 1 | III | Core Paper- XXVI Practical Auditing | 5 | 0 | 0 | 0 | 4 | 40 | 60 | 100 |
| 2 | III | Core Paper- XXVII Direct Taxation - II | 6 | 0 | 0 | 0 | 4 | 40 | 60 | 100 |
| 3 | III | Core Paper- XXVIII International Trade | 5 | 0 | 0 | 0 | 4 | 40 | 60 | 100 |
| 4 | III | Core Paper – XXIX Marketing | 5 | 0 | 0 | 0 | 4 | 40 | 60 | 100 |
| 5 | III | Core Paper- XXX Project Work | 5 | 0 | 0 | 0 | 8 | 40 | 60 | 100 |
| 6 | III | Elective –II Organizational Behaviour/ Insurance and Risk Management | 4 | 0 | 0 | 0 | 4 | 40 | 60 | 100 |
| 7 | V | Extension Activities | 0 | 0 | 0 | 0 | 1 | | | |
| TOTAL | | | 30 | | | | 29 | | | |

**DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE
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Arumbakkam, Chennai – 600 106.**



**DEPARTMENT OF MATHEMATICS WITH COMPUTER
APPLICATIONS
(B.Sc Mathematics with Computer Applications)
Programme Code: 36**

OUTCOME BASED EDUCATION

SYLLABUS

(Choice Based Credit System)

FOR STUDENTS ADMITTED FROM 2020-2021 ONWARDS

M. Sanyal

Head I/C

Department of Mathematics with
Computer Application
Dwaraka Doss Goverdhan Doss
Vaishnav College (Shift II)
Arumbakkam, Chennai-600 106.

B. Doss

PRINCIPAL

Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106.

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Affiliated to University of Madras

Arumbakkam

**DEPARTMENT OF MATHEMATICS WITH COMPUTER APPLICATIONS
SCHEME OF I SEMESTER B. SC MATHEMATICS WITH COMPUTER
APPLICATIONS PROGRAM**

| Sl. NO | Course Category | Course Code | Course | Credit Distribution | | | | Over all Credits | Total Contact Hours/Week | Marks | | |
|--------------|------------------------------------|-------------------------|--|---------------------|----------|----------|----------|------------------|--------------------------|------------|------------|------------|
| | | | | L | T | P | S | | | CIA | ESE | Total |
| 1 | PART-I | YY/16101 | Language Paper I | 3 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 2 | PART II | YY/99101 | English Paper- I | 3 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 3 | PART III Core Paper I | 2036101 | Classical Algebra | 4 | 0 | 0 | 0 | 4 | 6 | 40 | 60 | 100 |
| 4 | PART III Core Paper II | 2036102 | Differential Calculus | 4 | 0 | 0 | 0 | 4 | 6 | 40 | 60 | 100 |
| 5 | PART III Allied Paper I | 2036103 | Programming in C Theory | 3 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 6 | Practical - I | 2036105 | Programming in C (Practical) | 0 | 0 | 2 | 0 | 2 | 2 | 40 | 60 | 100 |
| 7 | PART -IV Non Major Elective - I | YY/ 6102 2036104 | Basic Tamil (For Students who have not studied Tamil up to XII Std. and taken a Non-Tamil Language under Part-I shall take Tamil comprising of two course (level will be at 6th Standard). Statistical Methods (For students who have studied Tamil up to XII Std.) | 2 | 0 | 0 | 0 | 2 | 2 | 40 | 60 | 100 |
| 8 | PART -IV Soft Skills I | 40101 | Soft Skill -I | 3 | 0 | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| Total | | | | 22 | 0 | 2 | 0 | 24 | 30 | 330 | 470 | 800 |

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**DEPARTMENT OF MATHEMATICS WITH COMPUTER APPLICATIONS
SCHEME OF II SEMESTER B. SC MATHEMATICS WITH COMPUTER
APPLICATIONS PROGRAM**

| SL. NO | Course Category | Course Code | Course | Credit Distribution | | | | Over all Credits | Total Contact Hours/Week | Marks | | |
|--------------|--------------------------------|--------------|--|---------------------|----------|----------|----------|------------------|--------------------------|------------|------------|------------|
| | | | | L | T | P | S | | | CIA | ESE | Total |
| 1 | PART-I | 16204 | Language Paper II | 3 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 2 | PART II | 99202 | English Paper- II | 3 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 3 | PART III Core Paper III | 2036210 | Trigonometry | 4 | 0 | | 0 | 4 | 6 | 40 | 60 | 100 |
| 4 | PART III Core Paper IV | 2036211 | Integral Calculus | 4 | 0 | 0 | 0 | 4 | 6 | 40 | 60 | 100 |
| 5 | PART III Allied Paper II | 2036212 | Object Oriented Programming with C++ (Theory) | 3 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 6 | Practical II | 2036213 | Object Oriented Programming with C++ (Practical) | 0 | 0 | 2 | 0 | 2 | 2 | 40 | 60 | 100 |
| 7 | PART -IV Non Major | 18-20/ 16102 | Basic Tamil | | | | | | | | | |
| | Elective - II | 2036214 | Discrete Mathematics | 2 | 0 | 0 | 0 | 2 | 2 | 40 | 60 | 100 |
| 8 | PART -IV Soft Skills II | 40201 | Soft Skill – II | 3 | 0 | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| Total | | | | 22 | 0 | 2 | 0 | 24 | 30 | 330 | 470 | 800 |

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DEPARTMENT OF MATHEMATICS WITH COMPUTER APPLICATIONS

SCHEME OF III SEMESTER B. SC MATHEMATICS WITH COMPUTER APPLICATIONS PROGRAM

| Sl. NO | Course Category | Course Code | Course | Credit Distribution | | | | Over all Credits | Total Contact Hours/Week | Marks | | |
|--------------|-------------------------|-------------|-------------------------|---------------------|----------|----------|----------|------------------|--------------------------|------------|------------|------------|
| | | | | L | T | P | S | | | CIA | ESE | Total |
| 1 | PART III Core Paper V | 2036320 | Differential Equations | 4 | 0 | 0 | 0 | 4 | 7 | 40 | 60 | 100 |
| 2 | PART III Core Paper VI | 2036321 | Mathematical Statistics | 4 | 0 | 0 | 0 | 4 | 7 | 40 | 60 | 100 |
| 3 | PART III Core Paper VII | 2036322 | Multimedia Theory | 3 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 4 | PART III Allied - III | 2036323 | Numerical Methods I | 5 | 0 | 0 | 0 | 5 | 8 | 40 | 60 | 100 |
| 5 | Practical III | 2036324 | Multimedia LAB | 0 | 0 | 2 | 0 | 2 | 2 | 40 | 60 | 100 |
| 6 | PART -IV Soft Skills II | 40301 | Soft Skill - II | 3 | 0 | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| Total | | | | 19 | 0 | 2 | 0 | 21 | 30 | 250 | 350 | 600 |

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DEPARTMENT OF MATHEMATICS WITH COMPUTER APPLICATIONS

SCHEME OF IV SEMESTER B. SC MATHEMATICS WITH COMPUTER APPLICATIONS PROGRAM

| Sl. NO | Course Category | Course Code | Course | Credit Distribution | | | | Over all Credits | Total Contact Hours/Week | Marks | | |
|--------|-----------------------------|-------------|--|---------------------|---|---|---|------------------|--------------------------|-------|-----|-------|
| | | | | L | T | P | S | | | CIA | ESE | Total |
| 1 | PART III Core Paper VIII | 2036428 | Vector Calculus, Analytical Geometry of Three Dimensions | 4 | 0 | 0 | 0 | 4 | 7 | 40 | 60 | 100 |
| 2 | PART III Core Paper IX | 2036429 | Transforms and Fourier Series | 4 | 0 | 0 | 0 | 4 | 7 | 40 | 60 | 100 |
| 3 | PART III Core Paper X | 2036430 | Programming in Java Theory | 3 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 4 | PART III Allied – III | 2036431 | Numerical Methods II | 5 | 0 | 0 | 0 | 5 | 6 | 40 | 60 | 100 |
| 5 | Practical III | 2036432 | Programming in Java (Practical) | 0 | 0 | 2 | 0 | 2 | 2 | 40 | 60 | 100 |
| 6 | PART –IV Soft Skills II | 40401 | Soft Skill – IV | 3 | 0 | 0 | 0 | 3 | 2 | 50 | 50 | 100 |
| 7 | PART –IV | | EVS | 2 | 0 | 0 | 0 | 2 | 2 | 40 | 60 | 100 |
| Total | | | | 21 | 0 | 2 | 0 | 23 | 30 | 250 | 350 | 700 |

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DEPARTMENT OF MATHEMATICS WITH COMPUTER APPLICATIONS
SCHEME OF V SEMESTER B. SC MATHEMATICS WITH COMPUTER
APPLICATIONS PROGRAM

| Sl. NO | Course Category | Course Code | Course | Credit Distribution | | | | Over all Credits | Total Contact Hours/Week | Marks | | |
|--------|-----------------------------|-------------|----------------------------|---------------------|---|---|---|------------------|--------------------------|-------|-----|-------|
| | | | | L | T | P | S | | | CIA | ESE | Total |
| 1 | PART III Core Paper XI | 2036536 | Algebraic Structures | 4 | 0 | | 0 | 4 | 6 | 40 | 60 | 100 |
| 2 | PART III Core Paper XII | 2036537 | Real Analysis | 4 | 0 | 0 | 0 | 4 | 6 | 40 | 60 | 100 |
| 3 | PART III Core Paper XIII | 2036538 | Web Technology (Theory) | 3 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 4 | PART III Elective I | 2036539 | Discrete Mathematics | 5 | 0 | 0 | 0 | 5 | 6 | 40 | 60 | 100 |
| 5 | PART III Elective II | 2036540 | Operations Research I | 5 | 0 | 0 | 0 | 5 | 5 | 40 | 60 | 100 |
| 6 | Practical V | 2036541 | Web Technology (Practical) | 0 | 0 | 2 | 0 | 2 | 2 | | | |
| 7 | PART -IV | | Value Education | 2 | 0 | 0 | 0 | 2 | 2 | 40 | 60 | 100 |
| Total | | | | 23 | 0 | 2 | 0 | 25 | 30 | 250 | 350 | 700 |

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B. Sangeetha
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DEPARTMENT OF MATHEMATICS WITH COMPUTER APPLICATIONS

SCHEME OF VI SEMESTER B. SC MATHEMATICS WITH COMPUTER APPLICATIONS PROGRAM

| Sl. NO | Course Category | Course Code | Course | Credit Distribution | | | | Over all Credits | Total Contact Hours/Week | Marks | | |
|--------|--------------------------------|-------------|---------------------------------------|---------------------|---|---|---|------------------|--------------------------|-------|-----|-------|
| | | | | L | T | P | S | | | CIA | ESE | Total |
| 1 | PART III Core Paper XIV | 2036642 | Linear Algebra | 4 | 0 | 0 | 0 | 4 | 6 | 40 | 60 | 100 |
| 2 | PART III Core Paper XV | 2036643 | Complex Analysis | 4 | 0 | 0 | 0 | 4 | 6 | 40 | 60 | 100 |
| 3 | PART III Core Paper XVI | 2036644 | Mechanics | 4 | 0 | 0 | 0 | 4 | 6 | 40 | 60 | 100 |
| 4 | PART III Core Paper XVII | 2036645 | DOT NET Programming (Theory) | 3 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 5 | PART III Elective III | 2036646 | Operations Research II | 5 | 0 | 0 | 0 | 5 | 5 | 40 | 60 | 100 |
| 6 | Practical VI | 2036647 | DOT NET Programming (Practical) | 0 | 0 | 2 | 0 | 2 | 2 | 40 | 60 | 100 |
| 7 | PART -IV | | Extension Activity | 1 | 0 | 0 | 0 | 1 | 1 | 40 | 60 | 100 |
| Total | | | | 21 | 0 | 2 | 0 | 23 | 30 | 250 | 350 | 700 |

B. Srinivasan

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Department of Physics (Shift II)

B.Sc. Physics with computer Applications

Programme Code: 37

OUTCOME BASED EDUCATION SYLLABUS

Academic Year 2020–2021

CHOICE BASED CREDIT SYSTEM (CBCS)

Dr. D. SHYAMALA
Head of the Department (Shift II)

Head
Department of Physics with
Computer Application
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Vaishnav College (Shift II)
Arumbakkam, Chennai - 600106.

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B.Sc. Physics with computer Applications

FIRST SEMESTER

| Sl. NO | Course category | Course | Credit Distribution | | | | Over all Credits | Total Contact Hours /Week | Marks | | |
|--------------|-----------------|---|---------------------|---|---|-----------|---|---------------------------|------------|------------|-------|
| | | | L | T | P | S | | | CIE | SEE | Total |
| 1 | Bachelors | Language – Paper I | 4 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 2 | | English – Paper I | 4 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 3 | | PCA Core 1 – Mechanics & Properties of Matter | 4 | 3 | 0 | 0 | 4 | 7 | 40 | 60 | 100 |
| 4 | | Allied Paper I– Mathematics | 4 | 3 | 0 | 0 | 5 | 7 | 40 | 60 | 100 |
| 5 | | PCA Core Practical I | 0 | 0 | 4 | 0 | Practical Examination at the end of Semester II (4 hours) | | | | |
| 6 | | 1 (a) Basic Tamil I/(b) Adv. Tamil/(c) Non-Major Elective | 2 | 0 | 0 | 0 | 2 | 2 | 40 | 60 | 100 |
| 7 | | 2. Skill Based Elective I | 2 | 0 | 0 | 0 | 3 | 2 | 40 | 60 | 100 |
| Total | | | | | | 20 | 30 | 280 | 420 | 700 | |

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B.Sc. Physics with computer Applications

SECOND SEMESTER

| Sl. NO | Course Category | Course | Credit Distribution | | | | Over all Credits | Total Contact Hours /Week | Marks | | |
|--------|-----------------|---|---------------------|---|---|---|------------------|---------------------------|------------|------------|------------|
| | | | L | T | P | S | | | CIE | SEE | Total |
| 1 | Bachelors | Language – Paper II | 4 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 2 | | English – Paper II | 4 | | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 3 | | PCA Core 2 – Basic Electronics | 4 | 3 | 0 | 0 | 4 | 7 | 40 | 60 | 100 |
| 4 | | Allied Paper II – Mathematics | 4 | 3 | 0 | 0 | 5 | 7 | 40 | 60 | 100 |
| 5 | | PCA Core Practical I | 0 | 0 | 4 | 0 | 4 | 3+1 | 40 | 60 | 100 |
| 6 | | 1 (a) Basic Tamil I/(b) Adv. Tamil/(c) Non-Major Elective | 2 | 0 | 0 | 0 | 2 | 2 | 40 | 60 | 100 |
| 7 | | 2. Skill Based Elective II | 2 | 0 | 0 | 0 | 3 | 2 | 40 | 60 | 100 |
| | | Total | | | | | 24 | 30 | 280 | 420 | 700 |

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B.Sc. Physics with computer Applications

THIRD SEMESTER

| Sl. NO | Course Category | Course | Credit Distribution | | | | Over all Credits | Total Contact Hours /Week | Marks | | |
|--------------|-----------------|---|---------------------|---|---|---|---|---------------------------|------------|------------|------------|
| | | | L | T | P | S | | | CIE | SEE | Total |
| 1 | Bachelors | PCA Core 3 – Mathematical Physics | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 2 | | PCA Core 4 – Electricity and Electromagnetism | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 3 | | CC 1 – Data Structures | 5 | 0 | 0 | 0 | 4 | 5 | 40 | 60 | 100 |
| 4 | | CC 2 – Programming in C++ | 5 | 0 | 0 | 0 | 4 | 5 | 40 | 60 | 100 |
| 5 | | PCA Core Practical II | 0 | 0 | 3 | 0 | Practical Examination at the end of Semester IV (3 hours) | | | | |
| 6 | | CCP 1 – Data Structure | 3 | 0 | 0 | 0 | 4 | 3 | 40 | 60 | 100 |
| 7 | | CCP 2 – Programming in C++ | 3 | 0 | 0 | 0 | 4 | 3 | 40 | 60 | 100 |
| 8 | | Soft Skill III | 2 | 0 | 0 | 0 | 3 | 2 | 40 | 60 | 100 |
| 9 | | Environmental Studies | 1 | 0 | 0 | 0 | Exam conducted at the end of Semester IV (1 hour) | | | | |
| Total | | | | | | | 27 | 30 | 280 | 420 | 700 |

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B.Sc. Physics with computer Applications
FOURTH SEMESTER

| Sl. NO | Course Category | Course | Credit Distribution | | | | Over all Credits | Total Contact Hours/Week | Marks | | |
|--------|-----------------|------------------------------------|---------------------|---|---|---|------------------|--------------------------|------------|------------|------------|
| | | | L | T | P | S | | | CIE | SEE | Total |
| 1 | Bachelors | PCA Core 5 – Optics | 5 | 0 | 0 | 0 | 4 | 5 | 40 | 60 | 100 |
| 2 | | PCA Core 6 – Quantum Mechanics | 6 | 0 | 0 | 0 | 4 | 6 | 40 | 60 | 100 |
| 3 | | CC 3 – Operating System | 5 | 0 | 0 | 0 | 4 | 5 | 40 | 60 | 100 |
| 4 | | CC 4 – Database Management Systems | 5 | 0 | 0 | 0 | 4 | 5 | 40 | 60 | 100 |
| 5 | | PCA Core Practical II | 0 | 0 | 3 | 0 | 4 | 3 | 40 | 60 | 100 |
| 6 | | CCP 3 – Practical RDBMS using VB | 0 | 0 | 3 | 0 | 4 | 3 | 40 | 60 | 100 |
| 7 | | Soft Skill IV | 2 | 0 | 0 | 0 | 3 | 2 | 40 | 60 | 100 |
| 8 | | Environmental Studies | 1 | 0 | 0 | 0 | 2 | 1 | 40 | 60 | 100 |
| | | Total | | | | | 29 | 30 | 320 | 480 | 800 |

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B.Sc. Physics with computer Applications

FIFTH SEMESTER

| Sl. NO | Course Category | Course | Credit Distribution | | | | Over all Credits | Total Contact Hours/Week | Marks | | |
|--------------|-----------------|--|---------------------|---|---|---|---|--------------------------|------------|------------|------------|
| | | | L | T | P | S | | | CIE | SEE | Total |
| 1 | Bachelors | PCA Core 7 – Thermal Physics & Acoustics | 5 | 0 | 0 | 0 | 4 | 5 | 40 | 60 | 100 |
| 2 | | PCA Core 8 – Solid State Physics | 5 | 0 | 0 | 0 | 4 | 5 | 40 | 60 | 100 |
| 3 | | PCA Open Elective – I* Space Science/ Optics and Photonics | 4 | 0 | 0 | 0 | 5 | 4 | 40 | 60 | 100 |
| 4 | | CC 5 – Programming in JAVA | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 5 | | CCP 4 – JAVA Programming Lab | 0 | 0 | 3 | 0 | 4 | 3 | 40 | 60 | 100 |
| 6 | | PCA Core Practical III (General) | 0 | 0 | 3 | 0 | Practical Examination at the end of Semester VI (9 hours) | | | | |
| 7 | | PCA Core Practical IV (Electronics) | 0 | 0 | 3 | 0 | | | | | |
| 8 | | PCA Core Practical V (Applied) | 0 | 0 | 3 | 0 | | | | | |
| 9 | | | Value Education | 0 | 0 | 0 | 0 | 2 | - | 40 | 60 |
| Total | | | | | | | 23 | 30 | 240 | 360 | 600 |

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B.Sc. Physics with computer Applications
SIXTH SEMESTER

| Sl. NO | Course Category | Course | Credit Distribution | | | | Over all Credits | Total Contact Hours /Week | Marks | | |
|--------------|-----------------|--|---------------------|---|---|---|------------------|---------------------------|------------|------------|------------|
| | | | L | T | P | S | | | CIE | SEE | Total |
| 1 | Bachelors | PCA Core 9 – Nuclear and Particle Physics | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 2 | | PCA Core 10 – Atomic Physics | 4 | 0 | 0 | 0 | 4 | 4 | 40 | 60 | 100 |
| 3 | | PCA – Elective I* – Integrated Electronics/ Bio-Physics/Applied Physics | 6 | 0 | 0 | 0 | 5 | 6 | 40 | 60 | 100 |
| 4 | | PCA – Elective II* – Microprocessor Fundamentals/ Physics of Materials/ Introduction to Astrophysics and Astronomy | 6 | 0 | 0 | 0 | 5 | 6 | 40 | 60 | 100 |
| 5 | | CC 6 – Digital Electronics (handled by Physics Department) | 4 | 0 | 3 | 0 | 4 | 4 | 40 | 60 | 100 |
| 6 | | PCA Core Practical III (General) | 0 | 0 | 2 | 0 | 4 | 2 | 40 | 60 | 100 |
| 7 | | PCA Core Practical IV (Electronics) | 0 | 0 | 2 | 0 | 4 | 2 | 40 | 60 | 100 |
| 8 | | PCA Core Practical V (Applied) | 0 | 0 | 2 | 0 | 4 | 2 | 40 | 60 | 100 |
| 9 | | Extension Activities | 0 | 0 | 0 | 0 | 1 | 0 | 40 | 60 | 100 |
| Total | | | | | | | 35 | 30 | 360 | 540 | 900 |

PRINCIPAL
 Dwarka Doss Goverdhan Doss
 Vaishnav College
 Arumbakkam, Chennai - 600106.



DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE

(Autonomous)

College with Potential for Excellence, Linguistic Minority Institution

Affiliated to University of Madras

Arumbakkam, Chennai – 600 106

DEPARTMENT OF TAMIL LITERATURE

B.A. TAMIL – PROGRAM CODE – 38

SYLLABUS WITH EFFECT FROM 2020-21

CHOICE BASED CREDIT SYSTEM &

OUTCOME BASED EDUCATION

Head
Department of Tamil Literature
Dwaraka Doss Goverdhan Doss
Vaishnav College (Shift II)
Arumbakkam, Chennai-600 106.

PRINCIPAL
Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106.

First year - First Season

| Sl. No | Course Category | Course Code | Course | Credit Distribution | | | | Overall Credits | Total Contact Hours/Week | Marks | | |
|--------------|-----------------|-------------|------------------------------------|---------------------|---|---|---|-----------------|--------------------------|------------|------------|------------|
| | | | | L | T | P | S | | | CI A | ES E | Total |
| 1 | Basement study | | TAMIL | 3 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 2 | Basement study | 19TS99101 | ENGLISH | 3 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 3 | Major | 1938101 | Contemporary Literature - 2 | 4 | 0 | 1 | 0 | 4 | 6 | 40 | 60 | 100 |
| 4 | Major | 1938102 | Ilakkaṇama -1 naṇṇūl eḷuttatikāram | 4 | 1 | 0 | 0 | 4 | 6 | 40 | 60 | 100 |
| 5 | Allied - I | 1938103 | Tamiḷaka varalārum paṇpāṭum -1 | 5 | 0 | 0 | 0 | 5 | 6 | 40 | 60 | 100 |
| 6 | NME - 1 | 1938104 | Payanpāṭṭut tamiḷ | 2 | 0 | 0 | 0 | 2 | 2 | 40 | 60 | 100 |
| 7 | Soft skill | 1940101 | Soft skill - 1 | 2 | 0 | 0 | 0 | 2 | 2 | 25 | 25 | 50 |
| Total | | | | | | | | 23 | 30 | 265 | 385 | 650 |

First year - second season

| Sl. No | Course Category | Course Code | Course | Credit Distribution | | | | Over all Credits | Total Contact Hours/Week | Marks | | |
|--------------|-----------------|-------------------------|--|---------------------|---|---|---|------------------|--------------------------|------------|------------|------------|
| | | | | L | T | P | S | | | CI | ES | Total |
| 1 | Basement study | | TAMIL | 3 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 2 | Basement study | 19TS99201/ 19TS99202 | ENGLISH | 3 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 3 | Major | 1938205 | Contemporary Literature - 2 | 4 | 0 | 1 | 0 | 4 | 6 | 40 | 60 | 100 |
| 4 | Major | 1938206 | Ilakkaṇam - 2 naṇṇūl – collatikāram | 4 | 1 | 0 | 0 | 4 | 6 | 40 | 60 | 100 |
| 5 | Allied - I | 1938207 | History and Culture of Tamil Nadu-2 | 5 | 0 | 0 | 0 | 5 | 6 | 40 | 60 | 100 |
| 6 | NME - 1 | 1938208 | Ithazhiyal Arimukam (NME - 2) | 2 | 0 | 0 | 0 | 2 | 2 | 40 | 60 | 100 |
| 7 | Soft skill | 1940201 | Soft skill – 2 | 2 | 0 | 0 | 0 | 2 | 2 | 25 | 25 | 50 |
| Total | | | | | | | | 23 | 30 | 265 | 385 | 650 |

SECOND YEAR - THIRD SEASON

| Sl. No | Course Category | Course Code | Course | Credit Distribution | | | | Overall Credits | Total Contact Hours/Week | Marks | | |
|--------------|-----------------|-------------------------|---|---------------------|---|---|---|-----------------|--------------------------|------------|------------|------------|
| | | | | L | T | P | S | | | CI A | ES E | Total |
| 1 | Basement study | | TAMIL | 3 | 0 | 0 | 0 | 3 | 6 | 40 | 60 | 100 |
| 2 | Basement study | 19TS99301/ 19TS99302 | ENGLISH | 3 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 3 | Major | 1938309 | Bakthi Literature & Prabandhangal Epics | 4 | 0 | 1 | 0 | 4 | 6 | 40 | 60 | 100 |
| 4 | Major | 1938310 | Ilakkaṇam – 3 Nampiyakapporuḷ | 4 | 1 | 0 | 0 | 4 | 6 | 40 | 60 | 100 |
| 5 | Allied | 1938311 | History of Tamil Literature 1 | 5 | 0 | 0 | 0 | 5 | 6 | 40 | 60 | 100 |
| 7 | Soft skill | 1940301 | Soft skill– 3 | 2 | 0 | 0 | 0 | 2 | 2 | 25 | 25 | 50 |
| Total | | | | | | | | 21 | 30 | 225 | 325 | 550 |

Second year - Fourth season

| Sl. NO | Course Category | Course Code | Course | Credit Distribution | | | | Overall Credits | Total Contact Hours/Week | Marks | | |
|--------------|-----------------|-------------------------|---|---------------------|---|---|---|-----------------|--------------------------|------------|------------|------------|
| | | | | L | T | P | S | | | CI A | ES E | Total |
| 1 | Basement study | | TAMIL | 3 | 0 | 0 | 0 | 3 | 6 | 40 | 60 | 100 |
| 2 | Basement study | 19TS99401/ 19TS99402 | ENGLISH | 3 | 0 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 3 | Major | 1938412 | Kaappiyam | 4 | 0 | 1 | 0 | 4 | 6 | 40 | 60 | 100 |
| 4 | Major | 1938413 | Ilakkaṇam – 4 Purapporul venbaamaalai | 4 | 1 | 0 | 0 | 4 | 6 | 40 | 60 | 100 |
| 5 | Allied | 1938414 | History of Tamil Literature - 2 | 5 | 0 | 0 | 0 | 5 | 6 | 40 | 60 | 100 |
| 6 | Allied | | ENVERAMENTAL STUDES | 2 | 0 | 0 | 0 | 2 | | 40 | 60 | 100 |
| 7 | Soft skill | 1940401 | Soft skill – 4 | 2 | 0 | 0 | 0 | 2 | 2 | 25 | 25 | 50 |
| Total | | | | | | | | 23 | 30 | 265 | 385 | 650 |

THIRD YEAR - FIFTH SEASON

| Sl. No | Course Category | Course Code | Course | Credit Distribution | | | | Overall Credits | Total Contact Hours/Week | Marks | | |
|--------------|-----------------|-------------|---|---------------------|---|---|---|-----------------|--------------------------|------------|------------|------------|
| | | | | L | T | P | S | | | CI A | ES E | Total |
| 1 | Major | 1938515 | Sangam Literature – Agam | 3 | 0 | 0 | 0 | 4 | 6 | 40 | 60 | 100 |
| 2 | Major | 1938516 | Ilakkaṇam – 5 Yaapparungalakkaarigai | 3 | 0 | 0 | 0 | 5 | 6 | 40 | 60 | 100 |
| 3 | Major | 1938517 | Thamizh mozhi varalaaru | 4 | 0 | 1 | 0 | 5 | 6 | 40 | 60 | 100 |
| 4 | Major | 1938518 | Thamizh Ilakkiyath thiranaaivu | 4 | 1 | 0 | 0 | 4 | 6 | 40 | 60 | 100 |
| 5 | Elective-1 | 1938519 | KOVIL KALAI | 5 | 0 | 0 | 0 | 5 | 6 | 40 | 60 | 100 |
| 7 | | | Value education | 2 | 0 | 0 | 0 | 2 | | 40 | 60 | 100 |
| Total | | | | | | | | 25 | 30 | 240 | 360 | 600 |

Third year - Sixth season

| Sl. NO | Course Category | Course Code | Course | Credit Distribution | | | | Over all Credits | Total Contact Hours/Week | Marks | | |
|--------------|----------------------|-------------|---|---------------------|---|---|---|------------------|--------------------------|------------|------------|------------|
| | | | | L | T | P | S | | | CI A | ES E | Total |
| 1 | Major | 1938620 | Sangam Literature – Puram | 3 | 0 | 0 | 0 | 4 | 6 | 40 | 60 | 100 |
| 2 | Major | 1938621 | Ilakkaṇam – 6 Thandiyalangaaram | 3 | 0 | 0 | 0 | 5 | 6 | 40 | 60 | 100 |
| 3 | Major | 1938622 | Thiraavida mozhigalum oppGrammerum | 4 | 0 | 1 | 0 | 5 | 6 | 40 | 60 | 100 |
| 4 | Elective - 2 | 1938623 | Nambiyagapporul | 4 | 1 | 0 | 0 | 5 | 6 | 40 | 60 | 100 |
| 5 | Elective - 3 | 1938624 | Adippadaik kaniniyiyal | 5 | 0 | 0 | 0 | 5 | 6 | 40 | 60 | 100 |
| 7 | Extension activities | | (NSS, NCC & Others) | 2 | 0 | 0 | 0 | 1 | | | | 100 |
| Total | | | | | | | | 25 | 30 | 200 | 300 | 500 |

DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE
(Autonomous)

**College with Potential for Excellence,
Linguistic Minority Institution**

Affiliated to University of Madras

Arumbakkam, Chennai 600 106




B.A English Syllabus

(C.B.C.S)

Outcome Based Education

(Effective from the academic year 2020 June onwards)

Head
Department of English Literature
Dwaraka Doss Goverdhan Doss
Vaishnav College (Shift II),
Arumbakkam, Chennai-600 106,


PRINCIPAL
Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106.

| Sem | Course | | | Cr. | Hrs./ Week | Marks | | Total |
|-----|--------|--------------------|--|-----------|---------------|-------|------|------------|
| | Part | Subject Code | Name | | | Int. | Ext. | |
| I | I | | Tamil / other languages – I | 3 | 6 | 40 | 60 | 100 |
| | II | | English – I | 3 | 4 | 40 | 60 | 100 |
| | III | | Core – I – Classical Literature | 4 | 6 | 40 | 60 | 100 |
| | | | Core – II – Children’s Literature | 4 | 6 | 40 | 60 | 100 |
| | | | Allied - I – Social History of England - I | 5 | 4 | 40 | 60 | 100 |
| | | | N.M.E I – Advertising and Public Relations | 2 | 2 | 40 | 60 | 100 |
| | | | Soft Skills | 3 | 2 | 40 | 60 | 100 |
| | | | Total | 24 | 30 | | | 700 |
| II | I | | Tamil / other languages – II | 3 | 6 | 40 | 60 | 100 |
| | II | | English – II | 3 | 4 | 40 | 60 | 100 |
| | III | | Core – III – The Elizabethan Age | 4 | 6 | 40 | 60 | 100 |
| | | | Core – IV – The Augustan Age | 4 | 6 | 40 | 60 | 100 |
| | | | Allied - II – Social History of England - II | 5 | 4 | 40 | 60 | 100 |
| | | | N.M.E II – Communication : Broadcasting & Telecasting | 2 | 2 | 40 | 60 | 100 |
| IV | | Soft Skills | 3 | 2 | 40 | 60 | 100 | |
| | | | Total | 24 | 30 | | | 700 |
| III | I | | Tamil / other languages – III | 3 | 6 | 40 | 60 | 100 |
| | II | | English – III | 3 | 4 | 40 | 60 | 100 |
| | III | | Core – V - The Romantic Age | 4 | 6 | 40 | 60 | 100 |
| | | | Core – VI – The Victorian Age | 4 | 6 | 40 | 60 | 100 |
| | | | Allied III – History of English Literature & Literary Forms - I | 5 | 6 | 40 | 60 | 100 |
| | | Soft Skills | 3 | 2 | 40 | 60 | 100 | |
| | | | Total | 22 | 30 | | | 600 |
| IV | I | | Tamil / other languages – IV | 3 | 6 | 40 | 60 | 100 |
| | II | | English – IV | 3 | 4 | 40 | 60 | 100 |
| | III | | Core – VII – The Modern Age | 4 | 6 | 40 | 60 | 100 |
| | | | Core – VIII – English Language and Linguistics | 4 | 6 | 40 | 60 | 100 |
| | | | Allied IV – History of English Literature & Literary Forms - II | 5 | 4 | 40 | 60 | 100 |
| IV | | Soft Skills | 3 | 2 | 40 | 60 | 100 | |

| | | | | | | | | |
|--------------------|-----|-----------------|---|------------|------------|----|-----|-------------|
| | | | Environmental Studies | 2 | 2 | 40 | 60 | 100 |
| | | | Total | 24 | 30 | | | 700 |
| V | III | | Core – IX – English Language Teaching | 4 | 6 | 40 | 60 | 100 |
| | | | Core – X – Shakespeare | 4 | 6 | 40 | 60 | 100 |
| | | | Core – XI – American Literature | 4 | 6 | 40 | 60 | 100 |
| | | | Core – XII – Post Colonial Literature | 4 | 6 | 40 | 60 | 100 |
| | | | Elective I – Film Review/ Travel Writing | 5 | 4 | 40 | 60 | 100 |
| IV | | Value Education | 2 | 2 | 40 | 60 | 100 | |
| | | | Total | 23 | 30 | | | 600 |
| VI | III | | Core – XIII – Indian Writing in English | 4 | 6 | 40 | 60 | 100 |
| | | | Core – XIV – Women’s Writing | 4 | 6 | 40 | 60 | 100 |
| | | | Core – XV – Canadian Literature | 4 | 6 | 40 | 60 | 100 |
| | | | Elective II – Translation Studies/Popular Fiction | 5 | 6 | 40 | 60 | 100 |
| | | | Elective III – English for Career/ Journalism and Mass Communication | 5 | 4 | 40 | 60 | 100 |
| | IV | | NSS/NCC/Rotract Club / Consumer Club | 1 | 2 | 40 | 60 | 100 |
| | | | Total | 23 | 30 | | | 600 |
| Grand Total | | | | 140 | 180 | -- | -- | 3900 |



**DWARAKA DOSS GOVERDHAN DOSS VAISHNAV
COLLEGE (AUTONOMOUS)**

**DEPARTMENT OF CRIMINOLOGY &
POLICE ADMINISTRATION**

PROGRAM CODE: 42

**BACHELOR'S DEGREE IN CRIMINOLOGY AND
POLICE ADMINISTRATION UNDER THE
FACULTY OF ARTS (B.A.)**

**REGULATIONS, SCHEME AND SYLLABUS
BASED ON
CHOICE BASED CREDIT SYSTEM (CBCS)
&
OUTCOME BASED EDUCATION (OBE)**

(Effective from the academic year 2020 – 2021)

Head
Department of Criminology
and Police Administration
Dwaraka Doss Goverdhan Doss
Vaishnav College (Shift II)
Arumbakkam, Chennai-600 106.

PRINCIPAL
Dwaraka Doss Goverdhan Doss
Vaishnav College.
Arumbakkam, Chennai - 600106.

COURSE OF STUDY FOR THE SIX SEMESTERS SHALL BE AS FOLLOWS:**SEMESTER I**

| Sl. No. | Core/Elective / Softskill | Title of the Course | Credits | Inst. hours | Exam hours | Maximum Marks | | |
|---------|---|---|---------|----------------|---------------|---------------|------|-------|
| | | | | | | Int. | Ext. | Total |
| 1. | Part I | Language I | 3 | 4 | 3 | 40 | 60 | 100 |
| 2. | Part II | English I | 3 | 4 | 3 | 40 | 60 | 100 |
| 3. | Part III – Core course Paper I | Principles of Criminology | 4 | 6 | 3 | 40 | 60 | 100 |
| 4. | Part III – Core course Paper II | Major Laws in CJS | 4 | 6 | 3 | 40 | 60 | 100 |
| 5. | Part III – Allied course Paper I | Basics of Forensic Science and Medicine | 4 | 6 | 3 | 40 | 60 | 100 |
| 6. | Part IV – Basic Tamil / NME Paper I | Fundamentals of Criminology | 2 | 2 | 3 | 40 | 60 | 100 |
| 7. | Part IV | Soft Skills | 2 | 2 | 3 | 40 | 60 | 100 |

Semester includes Basic Drill / Parade outside of class hours.

SEMESTER II

| Sl. No. | Core/ Elective / Softskill | Title of the Course | Credits | Inst. hours | Exam hours | Maximum Marks | | |
|---------|--------------------------------------|--|---------|-------------|------------|---------------|------|-------|
| | | | | | | Int. | Ext. | Total |
| 1. | Part I | Language II | 3 | 4 | 3 | 40 | 60 | 100 |
| 2. | Part II | English II | 3 | 4 | 3 | 40 | 60 | 100 |
| 3. | Part III – Core course Paper III | Police Administration & Management | 4 | 6 | 3 | 40 | 60 | 100 |
| 4. | Part III – Core course Paper IV | Fundamentals of Psychology | 4 | 6 | 3 | 40 | 60 | 100 |
| 5. | Part III – Allied course Paper II | Juvenile Justice | 4 | 6 | 3 | 40 | 60 | 100 |
| 6. | Part IV – Basic Tamil / NME Paper II | Foundations of Criminal Justice System | 2 | 2 | 3 | 40 | 60 | 100 |
| 7. | Part IV | Soft Skills | 2 | 2 | 3 | 40 | 60 | 100 |

Semester includes Basic Drill / Parade outside of class hours.

SEMESTER III

| Sl. No. | Core/Elective / Softskill | Title of the Course | Credits | Inst. hours | Exam hours | Maximum Marks | | |
|---------|---------------------------------------|--|---------|----------------|---------------|---------------|------|-------|
| | | | | | | Int. | Ext. | Total |
| 1. | Part I | Language III | 3 | 4 | 3 | 40 | 60 | 100 |
| 2. | Part II | English III | 3 | 4 | 3 | 40 | 60 | 100 |
| 3. | Part III – Core course Paper V | Human Rights and Criminal Justice Administration | 4 | 6 | 3 | 40 | 60 | 100 |
| 4. | Part III – Core course Paper VI | Social Problems | 4 | 6 | 3 | 40 | 60 | 100 |
| 5. | Part III – Allied course Paper III | Research Methods and Statistics | 4 | 6 | 3 | 40 | 60 | 100 |
| 6. | Part III – Allied course Paper IV | Practical I - Field Visits | 4 | - | - | 40 | 60 | 100 |
| 7. | Part IV | Soft Skills III | 2 | 2 | 3 | 40 | 60 | 100 |
| 8. | Part IV | EVS | | 2 | 3 | 40 | 60 | 100 |

Semester includes Basic Drill / Parade outside of class hours.

SEMESTER IV

| Sl. No. | Core/Elective / Softskill | Title of the Course | Credits | Inst. hours | Exam hours | Maximum Marks | | |
|---------|---------------------------------------|--------------------------------|---------|----------------|---------------|---------------|------|-------|
| | | | | | | Int. | Ext. | Total |
| 1. | Part I | Language IV | 3 | 4 | 3 | 40 | 60 | 100 |
| 2. | Part II | English IV | 3 | 4 | 3 | 40 | 60 | 100 |
| 3. | Part III – Core course Paper VII | Prison Administration | 4 | 6 | 3 | 40 | 60 | 100 |
| 4. | Part VIII – Core course Paper VIII | Methods of Investigation | 4 | 6 | 3 | 40 | 60 | 100 |
| 5. | Part III – Core course Paper IX | Counselling and Guidance | 4 | 6 | 3 | 40 | 60 | 100 |
| | Part III – Allied Course V | Practical II –Outdoor Training | 4 | 6 | | 40 | 60 | 100 |
| 6. | Part IV | Soft Skills IV | 2 | | 3 | 40 | 60 | 100 |
| 7. | Part IV | EVS | 2 | 2 | 3 | 40 | 60 | 100 |

SEMESTER V

| Sl. No. | Core/Elective / Softskill | Title of the Course | Credits | Inst. hours | Exam hours | Maximum Marks | | |
|---------|-------------------------------------|--|---------|----------------|---------------|---------------|------|-------|
| | | | | | | Int. | Ext. | Total |
| 1. | Part III – Core course Paper X | Corporate Security Management | 4 | 6 | 3 | 40 | 60 | 100 |
| 2. | Part III – Core course Paper XI | Advanced Psychology | 4 | 6 | 3 | 40 | 60 | 100 |
| 3. | Part III – Core course Paper XII | Practical III–Advanced Outdoor Training | 4 | 4 | | 40 | 60 | 100 |
| 4. | Part III – Elective Paper I & II | Foundations of Victimology (OR) Community Policing | 3 | 6 | 3 | 40 | 60 | 100 |
| 5. | Part III – Open Elective Paper I | Police and Community | 3 | 6 | 3 | 40 | 60 | 100 |
| 6. | Part IV | Value Education | 2 | 2 | 3 | 40 | 60 | 100 |

SEMESTER VI

| Sl. No. | Core/Elective / Soft skill | Title of the Course | Credits | Inst. hours | Exam hours | Maximum Marks | | |
|---------|--|---|---------|----------------|---------------|---------------|------|-------|
| | | | | | | Int. | Ext. | Total |
| 1. | Part III – Core course Paper XIII | Prevention of Crime | 4 | 6 | 3 | 40 | 60 | 100 |
| 2. | Part III – Core course Paper XIV | Contemporary Forms of Crime | 4 | 6 | 3 | 40 | 60 | 100 |
| 3. | Part III – Core course Paper XV | Private Investigation | 4 | 6 | 3 | 40 | 60 | 100 |
| 4. | Part III - Core course Paper XVI | Project | 6 | 4 | | 40 | 60 | 100 |
| 5. | Part III - Elective Paper III & IV | Crowd Control and Riot Management (OR) Media and Crime | 3 | 6 | 3 | 40 | 60 | 100 |
| 6. | Part V | Extension activities | 1 | 2 | | | | |

** Drill practice will be conducted for every semester

B.A. DEGREE COURSE IN SOCIOLOGY (Choice Based Credit System)

(With Effects From 2020-2021)

First Semester

| Subjects | Credit | Instruction hours | Exam | Max.Marks | | |
|---|--------|-------------------|------|-----------|----------|-------|
| | | | | Ext.Mark | Int.mark | Total |
| Part-I Language Paper-I | 3 | 4 | 3 | 60 | 40 | 100 |
| Part-II English Paper-1 | 3 | 4 | 3 | 60 | 40 | 100 |
| Part III Core Subject Paper-I: Principles of Sociology I | 5 | 6 | 3 | 60 | 40 | 100 |
| Core Subject Paper II : Indian Society | 5 | 6 | 3 | 60 | 40 | 100 |
| Allied I Paper-1: Social Psychology | 4 | 6 | 3 | 60 | 40 | 100 |
| Part-IV 1. Basic Tamil 2. Introduction to Sociology | 2 | 2 | 3 | 60 | 40 | 100 |
| 2. Skill based subject (Elective) (Soft Skills) | 2 | 2 | 3 | 50 | 50 | 100 |

Second Semester

| Subjects | Credit | Instruction hours | Exam | Max.Marks | | |
|--|--------|-------------------|------|-----------|-----------|-------|
| | | | | Ext. Mark | Int. mark | Total |
| Part-I-Language Paper- II | 3 | 4 | 3 | 60 | 40 | 100 |
| Part-II -English Paper- II | 3 | 4 | 3 | 60 | 40 | 100 |
| Part III Core Subject Paper-III : Principles of Sociology - II | 5 | 6 | 3 | 60 | 40 | 100 |
| Core Subject Paper IV : Social problems in India | 5 | 6 | 3 | 60 | 40 | 100 |
| Allied I Paper-2: Social Anthropology | 4 | 6 | 3 | 60 | 40 | 100 |
| Part-IV 1. Basic Tamil 2. Social Problems | 2 | 2 | 3 | 60 | 40 | 100 |
| 2. Skill based subject (Elective) (Soft Skills) | 2 | 2 | 3 | 50 | 50 | 100 |

THIRD SEMESTER

| Course components | Subjects | Credit | Inst. hours | Exam hour | Max. Mark | | |
|--------------------------------|---|--------|-------------|-----------|---|-----------|-------|
| | | | | | Ext. Mark | Int. Mark | Total |
| Part – I | Language Paper- III | 3 | 6 | 3 | 60 | 40 | 100 |
| Part – II | English Paper – III | 3 | 6 | 3 | 60 | 40 | 100 |
| Part –III Core Courses | Paper- V: Classical Social Thinkers I | 4 | 6 | 3 | 60 | 40 | 100 |
| | Paper - VI : Social Movements in India | 4 | 6 | 3 | 60 | 40 | 100 |
| Allied Subject – III | Social Demography | 4 | 6 | 3 | 60 | 40 | 100 |
| Elective - I | Sociology of Sanitation (Or) Sociology of Tourism | 3 | 6 | 3 | 60 | 40 | 100 |
| Part - IV Soft Skills - III | | 2 | | 3 | 50 | 50 | 100 |
| 3. Environmental Studies | | | | | Examination will be held in IV Semester | | |

FOURTH SEMESTER

| Course components | Subjects | Credit | Inst. hours | Exam hour | Max. Mark | | |
|---------------------------|---|--------|-------------|-----------|-----------|-----------|-------|
| | | | | | Ext. Mark | Int. Mark | Total |
| Part – I | Language Paper- IV | 3 | 6 | 3 | 60 | 40 | 100 |
| Part – II | English Paper – IV | 3 | 6 | 3 | 60 | 40 | 100 |
| Part –III Core Courses | Paper- VII: Classical Social Thinkers II | 5 | 6 | 3 | 60 | 40 | 100 |
| | Paper – VIII: Research Methodology and Statistics | 5 | 6 | 3 | 60 | 40 | 100 |
| Allied Subject – IV | Political Sociology | 4 | 6 | 3 | 60 | 40 | 100 |
| Part - IV Soft Skills– IV | | 2 | | 3 | 50 | 50 | 100 |
| 3. Environmental Studies | | 2 | 6 | 3 | 60 | 40 | 100 |

FIFTH SEMESTER

| Course components | Subjects | Credit | Inst. Hours | Exam hour | Max. Mark | | |
|----------------------------|---|--------|-------------|-----------|-----------|-----------|-------|
| | | | | | Ext. Mark | Int. Mark | Total |
| Part – III Core Courses | Paper- IX Rural Sociology | 5 | 6 | 3 | 60 | 40 | 100 |
| | Paper – X Urban Sociology | 4 | 6 | 3 | 60 | 40 | 100 |
| | Paper – XI Industrial Sociology | 4 | 6 | 3 | 60 | 40 | 100 |
| | Paper – XII Sociology of Development | 4 | 6 | 3 | 60 | 40 | 100 |
| Elective II | Sociology of Industry and work (or) Social Welfare in India | 3 | 6 | 3 | 60 | 40 | 100 |
| Part – IV | Value Education | 2 | | | | | |

SIXTH SEMESTER

| Course components | Subjects | Credit | Inst. hours | Exam hour | Max. Mark | | |
|-----------------------|---|--------|-------------|-----------|-----------|-----------|-------|
| | | | | | Ext. Mark | Int. Mark | Total |
| Part III Core courses | Paper- XIII Medical Sociology | 4 | 6 | 3 | 60 | 40 | 100 |
| | Paper – XIV Communication, Media and Society | 4 | 6 | 3 | 60 | 40 | 100 |
| Elective - III | Sociology of Consumer Behaviour (Or) Disaster and Social Crisis (Or) Sociology of Gender and Sexuality | 3 | 6 | 3 | 60 | 40 | 100 |
| Project Cum Viva Voce | | 14 | | | 60 | 40 | 100 |
| Part V | Extension Activities | 1 | | | | | |

Department of Accounting & Finance



DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE
(Autonomous)

College with Potential for Excellence, Linguistic Minority Institution
Affiliated to University of Madras
Arumbakkam, Chennai – 600 106

BACHELOR OF COMMERCE (ACCOUNTING AND FINANCE)

B.Com (Accounting & Finance)

CHOICE BASED CREDIT SYSTEM

OUTCOME BASED EDUCATION (OBE)

Code - 45

2020-2021

Caritha Menon

SIGNATURE OF HOD
Head

Department of Accounting and Finance
Dwaraka Doss Goverdhan Doss
Vaishnav College (Shift II)
Arumbakkam, Chennai-600 106.

[Handwritten Signature]

SIGNATURE OF PRINCIPAL
PRINCIPAL

Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106.

BACHELOR OF COMMERCE (ACCOUNTING AND FINANCE)**B.Com(AF)****CHOICE BASED CREDIT SYSTEM****OUTCOME BASED EDUCATION**

(Syllabus for students admitted from the Academic Year 2020-21 onwards)

SCHEME OF I SEMESTER

| Sl. No. | Part | Course | Hours Distribution | | | | Overall Credits | Marks | | |
|--------------|------|--|--------------------|---|---|---|-----------------|------------|------------|------------|
| | | | L | P | T | S | | CIE | SEE | Total |
| 1 | I | Language | 4 | 0 | 0 | 0 | 3 | 40 | 60 | 100 |
| 2 | II | English | 4 | 0 | 0 | 0 | 3 | 40 | 60 | 100 |
| 3 | III | Core Paper I: Financial Accounting - I | 4 | 2 | 0 | 3 | 4 | 40 | 60 | 100 |
| 4 | III | Core Paper II: Economics for Finance | 6 | 0 | 0 | 2 | 4 | 40 | 60 | 100 |
| 5 | III | Allied Paper I: Business Mathematics - I | 6 | 0 | 0 | 3 | 5 | 40 | 60 | 100 |
| 6 | IV | Non Major Elective/Basic Tamil | 2 | 0 | 0 | 1 | 2 | 50 | 50 | 100 |
| 7 | IV | Skill based subjects – Soft Skills | 2 | 0 | 0 | 0 | 3 | 50 | 50 | 100 |
| TOTAL | | | | | | | 24 | 290 | 410 | 700 |

SCHEME OF II SEMESTER

| Sl. No. | Part | Course | Hours | | | | Overall Credits | Marks | | |
|--------------|------|--|--------------|---|---|---|-----------------|------------|------------|------------|
| | | | Distribution | | | | | CIE | SEE | Total |
| | | | L | P | T | S | | | | |
| 1 | I | Language | 4 | 0 | 0 | 0 | 3 | 40 | 60 | 100 |
| 2 | II | English | 4 | 0 | 0 | 0 | 3 | 40 | 60 | 100 |
| 3 | III | Core Paper III: Financial Accounting - II | 6 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 4 | III | Core Paper IV: Management Concepts & Organizational Behaviour | 6 | 0 | 0 | 2 | 4 | 40 | 60 | 100 |
| 5 | III | Allied Paper II: Business Mathematics - II | 6 | 0 | 0 | 3 | 5 | 40 | 60 | 100 |
| 6 | IV | Non Major Elective/Basic Tamil | 2 | 0 | 0 | 1 | 2 | 50 | 50 | 100 |
| 7 | IV | Skill based subjects - Soft skills | 2 | 0 | 0 | 0 | 3 | 50 | 50 | 100 |
| TOTAL | | | | | | | 24 | 290 | 410 | 700 |

SCHEME OF III SEMESTER

| Sl. No. | Part | Course | Hours Distribution | | | | Overall Credits | Marks | | |
|--------------|------|---|--------------------|---|---|---|-----------------|------------|------------|------------|
| | | | L | P | T | S | | CIE | SEE | Total |
| 1 | III | Core Paper V: Corporate Accounting - I | 6 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 2 | III | Core Paper VI: Business Law | 5 | 0 | 0 | 2 | 4 | 40 | 60 | 100 |
| 3 | III | Core Paper VII: Banking Theory & Practice | 5 | 0 | 0 | 2 | 4 | 40 | 60 | 100 |
| 4 | III | Core Paper VIII: Financial Management - I | 5 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 5 | III | Allied Paper III: Business Statistics and Operations Research - I | 6 | 0 | 0 | 3 | 5 | 40 | 60 | 100 |
| 6 | IV | Environmental Studies <i>(Examination to be held in Semester IV)</i> | 1 | | | | | | | |
| 7 | IV | Skill based subjects –Soft skills | 2 | 0 | 0 | 0 | 3 | 50 | 50 | 100 |
| TOTAL | | | | | | | 24 | 250 | 350 | 600 |

SCHEME OF IV SEMESTER

| Sl. No. | Part | Course | Hours | | | | Overall Credits | Marks | | |
|--------------|------|--|--------------|---|---|---|-----------------|------------|------------|------------|
| | | | Distribution | | | | | CIE | SEE | Total |
| | | | L | P | T | S | | | | |
| 1 | III | Core Paper IX: Corporate Accounting - II | 6 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 2 | III | Core Paper X: Financial Management - II | 5 | 0 | 0 | 2 | 4 | 40 | 60 | 100 |
| 3 | III | Core Paper XI: Corporate Law | 5 | 0 | 0 | 2 | 4 | 40 | 60 | 100 |
| 4 | III | Core Paper XII: Business Communication | 5 | 0 | 0 | 1 | 4 | 40 | 60 | 100 |
| 5 | III | Allied Paper IV: Business Statistics and Operations Research - II | 6 | 0 | 0 | 2 | 5 | 40 | 60 | 100 |
| 6 | IV | Environmental Studies | 1 | 1 | 0 | 0 | 2 | 40 | 60 | 100 |
| 7 | IV | Skill based subjects – Soft Skills | 2 | 0 | 0 | 0 | 3 | 50 | 50 | 100 |
| TOTAL | | | | | | | 26 | 250 | 350 | 600 |

SCHEME OF V SEMESTER

| Sl. No. | Part | Course | Hours Distribution | | | | Overall Credits | Marks | | |
|--------------|------|--|--------------------|---|---|---|-----------------|------------|------------|------------|
| | | | L | P | T | S | | CIE | SEE | Total |
| 1 | III | Core Paper XIII: Basics of Cost Accounting | 6 | 0 | 0 | 2 | 4 | 40 | 60 | 100 |
| 2 | III | Core Paper XIV: Income Tax Law & Practice - I | 6 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 3 | III | Core Paper XV: Practical Auditing | 6 | 0 | 0 | 1 | 4 | 40 | 60 | 100 |
| 4 | III | Core XVI: Customs & Goods & Service Tax | 6 | 0 | 0 | 1 | 4 | 40 | 60 | 100 |
| 5 | III | Elective I: * International Business | 6 | 0 | 0 | 1 | 5 | 40 | 60 | 100 |
| 6 | IV | Value Education | 0 | 1 | 0 | 0 | 2 | 50 | 50 | 100 |
| TOTAL | | | | | | | 23 | 290 | 410 | 700 |

***STUDENTS HAVE THE OPTION OF CHOOSING OPEN ELECTIVES OFFERED BY OTHER SIMILAR DISCIPLINE DEPARTMENTS AND THE OPEN ELECTIVE OF THE DEPARTMENT.**

SCHEME OF VI SEMESTER

| Sl. No. | Part | Course | Hours Distribution | | | | Overall Credits | Marks | | |
|--------------|------|--|--------------------|---|---|---|-----------------|------------|------------|------------|
| | | | L | P | T | S | | CIE | SEE | Total |
| 1 | III | Core Paper XVII: Management Accounting | 6 | 0 | 0 | 2 | 4 | 40 | 60 | 100 |
| 2 | III | Core Paper XVIII: Costing Methods & Techniques | 6 | 0 | 0 | 2 | 4 | 40 | 60 | 100 |
| 3 | III | Core Paper XIX: Income Tax Law and Practice - II | 6 | 0 | 0 | 3 | 4 | 40 | 60 | 100 |
| 4 | III | Elective Paper II: Choose any one 1. Investment Management 2. Corporate Finance 3. Corporate Governance & Ethics | 6 | 0 | 0 | 3 | 5 | 40 | 60 | 100 |
| 5 | III | Elective Paper III: Choose any one 1. Entrepreneurship Development & Startups 2. Marketing Management 3. Human Resource Management | 6 | 0 | 0 | 3 | 5 | 40 | 60 | 100 |
| 6 | V | Extension Activities | 0 | 1 | 0 | 0 | 1 | | | |
| TOTAL | | | | | | | 23 | 290 | 410 | 700 |

DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE

(Autonomous)

College with Potential for Excellence, Linguistic Minority Institution

Affiliated to University of Madras

Arumbakkam, Chennai – 600 106



DEPARTMENT OF PSYCHOLOGY

B.Sc PSYCHOLOGY

PROGRAMME CODE -47

SYLLABUS

CHOICE BASED CREDIT SYSTEM (CBCS)

EFFECTIVE FROM THE ACADEMIC YEAR 2020 - 2021

PRINCIPAL
Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106.

Head
Department of Psychology
Dwaraka Doss Goverdhan Doss
Vaishnav College (Shift II)
Arumbakkam, Chennai-600 106.

B.SC. DEGREE COURSE IN PSYCHOLOGY

FIRST SEMESTER

| S. NO | COURSE COMPONENT | NAME OF THE COURSE | INSTRUCTION HOURS | CREDITS | EXAM DURATION | MAXIMUM MARKS | | |
|-------|---|---|-------------------|---------|---------------|---------------|----------|-------|
| | | | | | | INTERNAL | EXTERNAL | TOTAL |
| 1 | PART I | Language Paper I Tamil, Hindi, Sanskrit | 4 | 3 | 3 | 40 | 60 | 100 |
| 2 | PART II | English Paper I | 4 | 3 | 3 | 40 | 60 | 100 |
| 3 | PART III | CORE-PAPER I General Psychology-I | 6 | 4 | 3 | 40 | 60 | 100 |
| 4 | PART III | CORE- PAPER II Biological Basis of Behavior- I | 6 | 4 | 3 | 40 | 60 | 100 |
| 5 | PART III | ALLIED PAPER I Principles of Sociology | 6 | 5 | 3 | 40 | 60 | 100 |
| 6 | PART IV (a) not studied tamil upto XII std – shall take tamil comprising of two courses (level VI std) (b) (b) studied tamil upto XII std-taken non tamil under part-I shall take advance Tamil comprising of two courses. (c) Others who do not come under a or b can choose non-major elective comprising of two courses | Basic Tamil Stress &Coping | 2 | 2 | 3 | 40 | 60 | 100 |
| 7 | | Soft Skills I | 2 | 2 | 3 | 50 | 50 | 100 |

B.SC. DEGREE COURSE IN PSYCHOLOGY

SECOND SEMESTER

| S. NO | COURSE COMPONENT | NAME OF THE COURSE | INSTRUCTION HOURS | CREDITS | EXAM DURATION | MAXIMUM MARKS | | |
|-------|---|--|-------------------|---------|---------------|---------------|----------|-------|
| | | | | | | INTERNAL | EXTERNAL | TOTAL |
| 1 | PART I | Language Paper II Tamil, Hindi, Sanskrit | 4 | 3 | 3 | 40 | 60 | 100 |
| 2 | PART II | English Paper II | 4 | 3 | 3 | 40 | 60 | 100 |
| 3 | PART III | CORE-PAPER III General Psychology-II | 6 | 4 | 3 | 40 | 60 | 100 |
| 4 | | CORE- PAPER IV Biological Basis of Behavior- II | 6 | 4 | 3 | 40 | 60 | 100 |
| 5 | | ALLIED PAPER II Fundamentals of Social Anthropology | 6 | 5 | 3 | 40 | 60 | 100 |
| 6 | PART IV (a) not studied tamil upto XII std – shall take tamil comprising of two courses (level VI std) (b) (b) studied tamil upto XII std-taken non tamil under part-I shall take advance Tamil comprising of two courses. (c) Others who do not come under a or b can choose non-major elective comprising of two courses | Basic Tamil Building Psychological Capital | 2 | 2 | 3 | 40 | 60 | 100 |
| 7 | | Soft Skills II | 2 | 2 | 3 | 50 | 50 | 100 |

B.SC. DEGREE COURSE IN PSYCHOLOGY

THIRD SEMESTER

| S. NO | COURSE COMPONENT | NAME OF THE COURSE | INSTRUCTION HOURS | CREDITS | EXAM DURATION | MAXIMUM MARKS | | |
|-------|------------------|---|---|---------|---------------|---------------|----------|-------|
| | | | | | | INTERNAL | EXTERNAL | TOTAL |
| 1 | PART I | Language Paper III Tamil, Hindi, Sanskrit | 4 | 3 | 3 | 40 | 60 | 100 |
| 2 | PART II | English Paper III | 4 | 3 | 3 | 40 | 60 | 100 |
| 3 | PART III | CORE-PAPER V Developmental Psychology-I | 6 | 4 | 3 | 40 | 60 | 100 |
| 4 | | CORE- PAPER VI Experimental Psychology (Practical) | 6 | 4 | 3 | 25 | 75 | 100 |
| 5 | | ALLIED PAPER III Statistics in Psychology | 6 | 5 | 3 | 40 | 60 | 100 |
| 6 | PART IV | Soft Skills III | 2 | 2 | 3 | 50 | 50 | 100 |
| 7 | | Environmental studies | Examination will be held in IV semester | | | | | |

B.SC. DEGREE COURSE IN PSYCHOLOGY

FOURTH SEMESTER

| S. NO | COURSE COMPONENT | NAME OF THE COURSE | INSTRUCTION HOURS | CREDITS | EXAM DURATION | MAXIMUM MARKS | | |
|-------|------------------|--|-------------------|---------|---------------|---------------|----------|-------|
| | | | | | | INTERNAL | EXTERNAL | TOTAL |
| 1 | PART I | Language Paper IV Tamil, Hindi, Sanskrit | 4 | 3 | 3 | 40 | 60 | 100 |
| 2 | PART II | English Paper IV | 4 | 3 | 3 | 40 | 60 | 100 |
| 3 | PART III | CORE-PAPER VII Developmental Psychology-II | 6 | 4 | 3 | 40 | 60 | 100 |
| 4 | | CORE- PAPER VIII Psychological Assessment (Practical) | 6 | 4 | 3 | 25 | 75 | 100 |
| 5 | | ALLIED PAPER IV Marketing and Consumer behaviour | 6 | 5 | 3 | 40 | 60 | 100 |
| 6 | PART IV | Soft Skills III | 2 | 2 | 3 | 50 | 50 | 100 |
| 7 | | Environmental studies | | 2 | 3 | 50 | 50 | 100 |

B.SC. DEGREE COURSE IN PSYCHOLOGY

FIFTH SEMESTER

| S. NO | COURSE COMPONENT | NAME OF THE COURSE | INSTRUCTION HOURS | CREDITS | EXAM DURATION | MAXIMUM MARKS | | |
|-------|------------------|---|-------------------|---------|---------------|---------------|----------|-------|
| | | | | | | INTERNAL | EXTERNAL | TOTAL |
| 1 | PART III | CORE-PAPER IX Psychopathology I | 6 | 5 | 3 | 40 | 60 | 100 |
| 2 | | CORE- PAPER X Psychological Research & Measurement | 6 | 4 | 3 | 40 | 60 | 100 |
| 3 | | CORE PAPER XI Applied Psychology | 6 | 4 | 3 | 40 | 60 | 100 |
| 4 | | CORE PAPER XII Social Psychology | 6 | 4 | 3 | 40 | 60 | 100 |
| 5 | | Elective I – Health Psychology | 6 | 5 | 3 | 40 | 60 | 100 |
| | | OR | | | | | | |
| | Project* | 6 | 5 | | 25 | 75 | 100 | |
| 6 | PART IV | Value Education | | 2 | 1.5 | 50 | 50 | 100 |

*Guidelines for project

Students must submit three case study reports (compulsory) from three different areas mentioned below

Health and Organizational Psychology, Physical Health, Deviant behaviour, Adjustment Problems, Special Children, Neurological disorders, Educational Institutions, Retail Outlets, Service Industries, NGO

Marks = 100 Internal = 25 External = 75 (Viva = 25 Report = 50)

B.SC. DEGREE COURSE IN PSYCHOLOGY

SIXTH SEMESTER

| S. NO | COURSE COMPONENT | NAME OF THE COURSE | INSTRUCTION HOURS | CREDITS | EXAM DURATION | MAXIMUM MARKS | | |
|-------|------------------|--|-------------------|---------|---------------|---------------|----------|-------|
| | | | | | | INTERNAL | EXTERNAL | TOTAL |
| 1 | PART III | CORE-PAPER XIII Psychopathology II | 6 | 5 | 3 | 40 | 60 | 100 |
| 2 | | CORE- PAPER XIV Organizational Psychology | 6 | 5 | 3 | 40 | 60 | 100 |
| 3 | | CORE PAPER XV Social Psychology II | 6 | 5 | 3 | 40 | 60 | 100 |
| 4 | | ELECTIVE I Counselling and Guidance | 6 | 5 | 3 | 40 | 60 | 100 |
| 5 | | ELECTIVE II – Human Resources Management | 6 | 5 | 3 | 40 | 60 | 100 |
| | | OR | | | | | | |
| | | Project* | 12 | 10 | | 50 | 150 | 200 |
| 6 | PART IV | Extension Activity | | 1 | | | | |

*Guidelines for project

Students must submit two survey reports (compulsory) from three different areas mentioned below

Mental health problems, Physical health problems, Issues pertaining to women, Social Psychology, Environmental Psychology, Consumer behaviour, Child Psychology, Old age problems.

Marks = 200 Internal = 50 External = 150 (Viva = 50 Report = 100)

**DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE, ARUMBAKKAM,
CHENNAI – 106**



**PG DEPARTMENT OF JOURNALISM AND COMMUNICATION
SYLLABUS AND REGULATIONS**

(Choice Based Credit System)

OUTCOME BASED EDUCATION

For the candidates admitted from the Academic Year 2020- 21 onwards

PRINCIPAL
Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106.

Head
P.G. Department of
Journalism & Mass Communication.
Dwaraka Doss Goverdhan Doss
Vaishnav College (Shift II)
Arumbakkam, Chennai-600 106

Department of Journalism and Mass Communication
For candidates admitted from the academic year 2020-2021

| Curriculum Design Template of M.A. Journalism / Mass Communication 2020-21 | | | | | | | |
|--|------------|---|----------|-----------|---------|--------------------|-----------|
| FIRST SEMESTER | | | | | | | |
| S.No | CourseCode | Name of Course | Semester | InstHours | Credits | ExamDuration Hours | Max Marks |
| 1 | Core 1 | Human Communication | 1 | 5 | 4 | 3 | 100 |
| 2 | Core 2 | Reporting and Writing Skills | 1 | 5 | 4 | 3 | 100 |
| 3 | Core 3 | Editing Skills | 1 | 5 | 4 | 3 | 100 |
| 4 | Core 4 | Information and Communication Technology | 1 | 5 | 4 | 3 | 100 |
| 5 | Elective 1 | Travel Photography /Photojournalism (Practical 1) | 1 | 4 | 3 | 3 | 100 |
| 6 | Elective 2 | Media Skills/Online Journalism and Web Management (Practical 2) | 1 | 4 | 3 | 3 | 100 |
| 7 | | Soft Skills | 1 | | 2 | 100 | |
| SECOND SEMESTER | | | | | | | |
| 8 | Core 5 | Mass Communication Theories | 2 | 5 | 4 | 3 | 100 |
| 9 | Core 6 | Media ,Culture and Society | 2 | 5 | 4 | 3 | 100 |
| 10 | Core 7 | Communication Research Methods | 2 | 5 | 4 | 3 | 100 |
| 11 | Core 8 | Digital Marketing | 2 | 6 | 4 | 3 | 100 |
| 12 | Elective 3 | Human Interest Stories/Cultural Journalism (Practical 3) | 2 | 6 | 3 | 3 | 100 |

| | | | | | | | |
|----|------------|--|---|---|---|---|-----|
| 13 | Elective 4 | Mobile Journalism/ News Production (Practical 4) | 2 | 4 | 3 | 3 | 100 |
| 14 | | Soft Skills | 2 | | 2 | | 100 |

Curriculum Design Template of M.A. Journalism / Mass Communication 2020-2021

THIRD SEMESTER

| S.No | Course Code | Name of Course | Semester | Inst Hours | Credits | Exam Duration Hours | Max Marks |
|------|-------------------------------------|---|----------|------------|---------|---------------------|-----------|
| 1 | Core 9 | Media Management | 3 | 4 | 4 | 3 | 100 |
| 2 | Core 10 | Advertising | 3 | 4 | 4 | 3 | 100 |
| 3 | Core 11 | Public Relation & Corporate Communication | 3 | 4 | 4 | 3 | 100 |
| 4 | Core 12 | Dissertation (Practical 5) | 3 | 5 | 4 | 3 | 200 |
| 5 | Elective 5 Inter disciplinary | Documentary Production(Practical 6) | 3 | 5 | 3 | 3 | 100 |
| 6 | Elective 6 | Deprivation Coverage / Event Management (Practical 7) | 3 | 5 | 3 | 3 | 100 |
| 7 | Elective 7 Extra Disciplinary | Developmental Communication /Health Communication (Practical 8) | 3 | 5 | 3 | 3 | 100 |
| 8 | | Soft Skills | 3 | | 2 | 100 | |

FOURTH SEMESTER

| | | | | | | | |
|----|---------|---|---|---|---|---|-----|
| 9 | Core 13 | Media Laws and Ethics | 4 | 4 | 4 | 3 | 100 |
| 10 | Core 14 | Film Studies and Appreciation (Practical | 4 | 5 | 4 | 3 | 100 |

| | | | | | | | |
|----|---------|---|---|---|---|---|-----|
| | | 9) | | | | | |
| 11 | Core 15 | Digital Story Telling (Practical 10) | 4 | 5 | 4 | 3 | 100 |
| 12 | | Internship | 4 | 6 | 2 | 3 | 100 |
| 14 | | Soft Skills | 2 | | 2 | | 100 |



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(Autonomous)

College with Potential for Excellence, Linguistic Minority Institution

Affiliated to University of Madras

Arumbakkam, Chennai – 106.

Post Graduate & Research Department of Economics

M.A.Economics – Programme Code – 31

B.A. Economics – Programme Code – 01

M.Phil Economics – Programme Code - 51

SYLLABUS – With effect from 2020-21 onwards

CHOICE BASED CREDIT SYSTEM

OUTCOME BASED EDUCATION

PRINCIPAL

**Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106.**

HOD Sign

**Dr. T.S. PREMA, M.A., M.Phil., Ph.D.,
Associate Professor & Head
Post Graduate &
Research Department of Economics (Shift I)
Dwaraka Doss Goverdhan Doss Vaishnav College
Arumbakkam, Chennai - 600106.**

M.Phil -Economics

| S.No | COURSE TITLE | CREDITS |
|-------------|---|----------------|
| 1. | Introduction to Research Methods in Economics | 5 |
| 2. | Economic Theory | 5 |
| 3. | Selected Issues in Indian Economic Development | 5 |
| | Dissertation & Viva voce | 21 |
| | Total | 36 |



DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE
(Autonomous)

College with Potential for Excellence, Linguistic Minority Institution
Affiliated to University of Madras
Arumbakkam, Chennai 600 106

PG & Research Department of Commerce

Master in Philosophy
(M.Phil)

Programme Code: 52

OBE SYLLABUS

Academic Year 2020-2021

CHOICE BASED CREDIT SYSTEM (CBCS)

PROF. S. SESHADRINATHAN
Head of the Department (Shift II)

Head
Department of Commerce
Dwaraka Doss Goverdhan Doss
Vaishnav College (Shift II)
Arumbakkam, Chennai-600 106.

Dr J JAYASANKAR
Head of the Department(Shift I)

Dr.J.Jayasankar, M.Com., M.Phil., Ph.D
Associate Professor & Head
Research Supervisor & Guide
PG & Research Dept. of Commerce
Dwaraka Doss Goverdhan Doss Vaishnav college
Arumbakkam, Chennai- 600 106.

PRINCIPAL

Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106.

PG & RESEARCH DEPARTMENT OF COMMERCE (SHIFT I)
CHOICE BASED CREDIT SYSTEM (CBCS)

PROGRAMME SCHEME

M.PHIL

| SL. NO | COURSE NAME | CREDITS |
|---------------|--|----------------|
| 1 | CORE PAPER I - RESEARCH METHODOLOGY | 5 |
| 2 | CORE PAPER II - ADVANCED FINANCIAL MANAGEMENT | 5 |
| 3 | PAPER III (INTERNAL) ADVANCED MARKETING | 5 |
| 4 | DISSERTATION & VIVA VOCE | 21 |

**DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE
(AUTONOMOUS)
Arumbakkam, Chennai - 600 106.**



**POST GRADUATE & RESEARCH
DEPARTMENT OF MATHEMATICS
(M Phil Mathematics)
Programme Code: 53**

**Academic Year 2020-2021
SYLLABUS
(Choice Based Credit System)
OUTCOME BASED EDUCATION
FOR STUDENTS ADMITTED FROM 2012-2013 ONWARDS**

**PRINCIPAL
Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106.**

**R. VENKATARAMANAN M.Sc., M.Phil.,
ASSOCIATE PROFESSOR AND HEAD
P.G. AND RESEARCH DEPT OF MATHEMATICS
DWARAKADOSS GOVERDHAN DOSS
VAISHNAV COLLEGE
CHENNAI - 600 106**

**DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE (AUTONOMOUS)
CHENNAI – 600 106**

Program Name: M.Phil. Mathematics

Curriculum and scheme of Examination under CBCS

(Applicable to the students admitted during the Academic Year 2012-2013 and Onwards)

| Semester | Subject code | Title of the paper | Instruction hours/cycle | Examination marks | | | Duration of examination hours | Credits |
|----------|---------------------|----------------------------------|-------------------------|-------------------|-----|------------|-------------------------------|---------|
| | | | | CIA | ESE | TOTAL | | |
| I | 53101 | Paper I – Algebra and analysis | 6 | 25 | 75 | 100 | 3 | 5 |
| | 53102 | Paper II – Topology and Geometry | 6 | 25 | 75 | 100 | 3 | 5 |
| | 53103 | Paper III – Optional paper | 6 | 25 | 75 | 100 | 3 | 5 |
| | Total | | | | | 300 | | |
| II | Dissertation | | | | | 200 | | |
| | Grand total | | | | | 500 | | |

Note:

CBCS – Choice Based Credit System

CIA – Continuous Internal Assessment

ESE – End of Semester Examination

Tally table

| Subject | No. of subjects | Total marks | Credits |
|---|-----------------|-------------|-----------|
| Core – Theory (including optional paper) | 3 | 300 | 15 |
| Dissertation | 1 | 200 | |
| Total | 4 | 500 | |

**DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE
(AUTONOMOUS)
Arumbakkam, Chennai - 600 106.**



**POST GRADUATE & RESEARCH
DEPARTMENT OF MATHEMATICS
(M Phil Mathematics)
Programme Code: 53**

**Academic Year 2020-2021
SYLLABUS
(Choice Based Credit System)
OUTCOME BASED EDUCATION
FOR STUDENTS ADMITTED FROM 2012-2013 ONWARDS**

**PRINCIPAL
Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106.**

**R. VENKATARAMANAN M.Sc., M.Phil.,
ASSOCIATE PROFESSOR AND HEAD
P.G. AND RESEARCH DEPT OF MATHEMATICS
DWARAKADOSS GOVERDHAN DOSS
VAISHNAV COLLEGE
CHENNAI - 600 106**

**DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE (AUTONOMOUS)
CHENNAI – 600 106**

Program Name: M.Phil. Mathematics

Curriculum and scheme of Examination under CBCS

(Applicable to the students admitted during the Academic Year 2012-2013 and Onwards)

| Semester | Subject code | Title of the paper | Instruction hours/cycle | Examination marks | | | Duration of examination hours | Credits |
|----------|---------------------|----------------------------------|-------------------------|-------------------|-----|------------|-------------------------------|---------|
| | | | | CIA | ESE | TOTAL | | |
| I | 53101 | Paper I – Algebra and analysis | 6 | 25 | 75 | 100 | 3 | 5 |
| | 53102 | Paper II – Topology and Geometry | 6 | 25 | 75 | 100 | 3 | 5 |
| | 53103 | Paper III – Optional paper | 6 | 25 | 75 | 100 | 3 | 5 |
| | Total | | | | | 300 | | |
| II | Dissertation | | | | | 200 | | |
| | Grand total | | | | | 500 | | |

Note:

CBCS – Choice Based Credit System

CIA – Continuous Internal Assessment

ESE – End of Semester Examination

Tally table

| Subject | No. of subjects | Total marks | Credits |
|---|-----------------|-------------|-----------|
| Core – Theory (including optional paper) | 3 | 300 | 15 |
| Dissertation | 1 | 200 | |
| Total | 4 | 500 | |



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(AUTONOMOUS)**

College with Potential for Excellence
Linguistic Minority Institution Affiliated to University of Madras
Arumbakkam, Chennai – 600106

POST GRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY

CHOICE BASED CREDIT SYSTEM (CBCS)

OUTCOME BASED EDUCATION (OBE) SYLLABUS

M.Phil. CHEMISTRY

Programme Code:54

Academic year 2020 – 2021

Dr. K. Premalatha

Associate Professor and Head

PRINCIPAL

**Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106.**



**DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE
(AUTONOMOUS)**

College with Potential for Excellence
Linguistic Minority Institution Affiliated to University of Madras
Arumbakkam, Chennai – 600106

M.Phil. Course Structure

| Sl. No. | Course Components | Subjects | Credits | Exam Hrs. | Max. Marks | |
|---------|-------------------|----------------------------------|---------|-----------|------------|----------|
| | | | | | CIA | External |
| 1 | Core 1 | Research Methodology | 5 | 3 | 25 | 75 |
| 2 | Core 2 | Instrumental methods of analysis | 5 | 3 | 25 | 75 |
| 3 | Elective 1** | Kinetics and Mechanism | 5 | 3 | 25 | 75 |
| 4 | Elective 2** | Advanced Co-ordination chemistry | 5 | 3 | 25 | 75 |
| 5. | Elective 3** | Synthetic Organic Chemistry | 5 | 3 | 25 | 75 |
| 6. | Elective 4** | Polymer Chemistry | 5 | 3 | 25 | 75 |
| 5 | Core 3 | Project and Viva - Voce | 21 | | | 200* |
| | | Total | 36 | | | |

Core 1 & 2 compulsory papers

****Elective 1 -4 (any one Paper) should be taken by the candidate.**

****Elective Papers are to be set by the supervisor concerned.**

*** Project evaluation 150 marks**

Viva – Voce 50 marks

PRINCIPAL
Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106.

DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE



Department of Biochemistry
Outcome Based Education (OBE)
& Choice Based credit system

Programme & Programme Code

M.Phil Biochemistry(55)

Applicable for students admitted from the academic year 2020-2021 onwards

PRINCIPAL
Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106.

Head
Department of Biochemistry
Dwaraka Doss Goverdhan Do?s
Vaish.nav College (Shift II)
Arumbakkam, Chennai 600 100.

COURSE OF STUDY AND SCHEME OF EXAMINATION for MPhil Biochemistry

| SI. NO | course Category | Course | Hrs/ week | Exam Hrs | Marks distribution | | | |
|--------|-------------------|---|-----------|----------|--------------------|-----------|-------|---------|
| | | | | | Internals | Externals | Total | Credits |
| 1 | Part - I Core | Research methodology | 4 | 3 | 40 | 60 | 100 | 4 |
| 2 | Part – II Core | Advanced Biochemistry | 4 | 3 | 40 | 60 | 100 | 4 |
| 3 | Part-III Elective | DNA techniques and clinical applications | 4 | 3 | 40 | 60 | 100 | 4 |
| 4. | Part-III Elective | Plant biochemistry and plant Therapeutics | 4 | 3 | 40 | 60 | 100 | 4 |
| 5. | Part-III Elective | Enzymes and enzyme Technology | 4 | 3 | 40 | 60 | 100 | 4 |
| | | Total | 12 | | 120 | 180 | 300 | 12 |

DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE



DEPARTMENT OF MICROBIOLOGY

Choice Based credit system

Outcome Based Education Syllabus

ACADEMIC YEAR 2020 - 2021

Programme Name : M.Phil. Microbiology

Programme Code : 56

PRINCIPAL

**Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106.**

Head

**P.G. Research Department of Microbiology
Dwaraka Doss Goverdhan Doss
Vaishnav College (Shift II)
Arumbakkam, Chennai-600 106.**

DEPARTMENT OF MICROBIOLOGY
SCHEME OF M.PHIL MICROBIOLOGY PROGRAM

| Sl. NO | Course Category | Course | Hours Distribution | | | | Over all Credits | Total Contact Hours/Week | Marks | | |
|--------------|-----------------|--|--------------------|---|---|---|------------------|--------------------------|-------|-------|------------|
| | | | L | T | P | S | | | C I A | E S E | Total |
| 1 | Core | Research methodology and its application | 4 | 0 | 0 | 0 | 4 | 6 | 25 | 75 | 100 |
| 2 | Core | Advances in microbiology | 4 | 0 | 0 | 0 | 4 | 6 | 25 | 75 | 100 |
| 3 | Core | Guide Paper | 4 | 0 | 0 | 0 | 4 | 6 | 25 | 75 | 100 |
| | | Industrial and pharmaceutical Microbiology | | | | | | | | | |
| | | Bioremediation | | | | | | | | | |
| 4 | | Dissertation and Evaluation Viva voce | 12 | | | | 12 | | 50 | 100 | 150 |
| Total | | | | | | | 24 | | | | 500 |



DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE

(Autonomous)

College with Potential for Excellence, Linguistic Minority Institution

Affiliated to University of Madras

Arumbakkam, Chennai – 600 106

UNDERGRADUATE DEPARTMENT OF JOURNALISM

BA JOURNALISM – PROGRAM CODE – 61

SYLLABUS WITH EFFECT FROM 2020-21

CHOICE BASED CREDIT SYSTEM

OUTCOME BASED EDUCATION

Heishu Priya

Head

Department of Journalism
Dwaraka Doss Goverdhan Doss
Vaishnav College (Shift II)
Arumbakkam, Chennai-600 106.

B. L. V.

PRINCIPAL

Dwaraka Doss Goverdhan Doss
Vaishnav College
Arumbakkam, Chennai - 600106.

COURSE CURRICULUM

Dwaraka Doss Goverdhan Doss Vaishnav College (Autonomous), Chennai – 600 106

[Affiliated to University of Madras]

B.A. [Journalism]

Curriculum (Batch 2020 – 2021 Onwards)

| Semester – I | Credits | Hours | Semester – II | Credits | Hours |
|--------------------------------------|-----------|-----------|--|-----------|-----------|
| 1. Language – I | 3 | 6 | 1. Language – II | 3 | 6 |
| 2. English – I | 3 | 4 | 2. English – II | 3 | 4 |
| 3. Basic Journalism | 5 | 5 | 3. Reporting & Writing | 5 | 5 |
| 4. History of the press in India | 5 | 5 | 4. Social Issues in India | 4 | 5 |
| 5. Desktop Publishing (Practical) | 4 | 6 | 5. Webpage Design (Practical) | 4 | 6 |
| 6. Non – Major Elective – I* | 2 | 2 | 6. Non – Major Elective – II* | 2 | 2 |
| 7. Soft Skills - I | 3 | 2 | 7. Soft Skills - I | 3 | 2 |
| Total | 25 | 30 | Total | 24 | 30 |
| Semester – III | Credits | Hours | Semester – IV | Credits | Hours |
| 1. Language - III | 3 | 6 | 1. Language – IV | 3 | 6 |
| 2. English - III | 3 | 5 | 2. English - IV | 3 | 5 |
| 3. Broadcast Journalism | 5 | 5 | 3. Economic Issues in India | 5 | 6 |
| 4. Political Issues in India | 5 | 5 | 4. Indian Constitution & Legal System | 4 | 6 |
| 5. Photo Journalism [Practical] | 4 | 6 | 5. Elective I - Film Appreciation/Human Rights Reporting (Practical) | 3 | 4 |
| 6. Soft Skills – III | 3 | 2 | 6. Soft Skills – IV | 3 | 2 |
| 7. Environmental Studies | - | 1 | 7. Environmental Studies | 2 | 1 |
| Total | 23 | 30 | Total | 23 | 30 |
| Semester – V | Credits | Hours | Semester – VI | Credits | Hours |
| 1. Press Laws and Ethics | 5 | 6 | 1. Mass communication Theories | 5 | 6 |

| | | | | | |
|---|-----------|-----------|---|-----------|-----------|
| 2. Online Journalism | 5 | 6 | 2. Media Organisation | 5 | 6 |
| 3. Internship | 5 | 6 | 3. Elective IV – Environmental Journalism/Advocacy Journalism (Practical) | 3 | 6 |
| 4. Elective II – (Interdisciplinary) Writing for Media | 3 | 5 | 4. Elective V – Developmental Journalism/Cultural Journalism (Practical) | 3 | 6 |
| 5. Elective – III Documentary/News Production (Practical) | 3 | 5 | 5. Practical - Web magazine/Tabloid | 5 | 6 |
| 6. Value Education | 2 | 2 | 6. Extension Activity | 1 | |
| Total | 23 | 30 | Total | 22 | 30 |

B.A. [JOURNALISM]

FIRST SEMESTER

| Sl.No | Course Component | Name of the Course | Instructional Hours | Credits | Examination Hours | Max. Marks | |
|-------|------------------|---|---------------------|---------|-------------------|------------|-----|
| | | | | | | CIA | ESE |
| 1 | Part – I | Language – I | 6 | 3 | 3 | 40 | 60 |
| 2 | Part – II | English – I | 4 | 3 | 3 | 40 | 60 |
| 3 | Part – III | Core I - Basic Journalism | 5 | 5 | 3 | 40 | 60 |
| 4 | Part – III | Core II History of the Press in India | 5 | 5 | 3 | 40 | 60 |
| 5 | Part – III | Allied I Desktop Publishing (P) | 6 | 4 | 3 | 40 | 60 |

| | | | | | | | |
|---|-----------|--|----|----|---|----|----|
| 6 | Part – IV | Non Major Elective / *Basic Tamil / Advanced Tamil | 2 | 2 | 3 | 40 | 60 |
| 7 | Part – IV | Skill Based Subject Soft Skills – I | 2 | 3 | 3 | 40 | 60 |
| | Total | | 30 | 25 | | | |

SECOND SEMESTER

| Sl.No | Course Component | Name of the Course | Instructional Hours | Credits | Examination Hours | Max. Marks | |
|-------|---------------------|---|------------------------|---------|----------------------|---------------|-----|
| | | | | | | CIA | ESE |
| 1 | Part – I | Language – II | 6 | 3 | 3 | 40 | 60 |
| 2 | Part – II | English – II | 4 | 3 | 3 | 40 | 60 |
| 3 | Part – III | Core III Reporting & Writing | 5 | 5 | 3 | 40 | 60 |
| 4 | Part – III | Allied II Social Issues in India | 5 | 4 | 3 | 40 | 60 |
| 5 | Part – III | Allied III Webpage Design (P) | 6 | 4 | 3 | 40 | 60 |
| 6 | Part – IV | Non Major Elective / *Basic Tamil | 2 | 2 | 3 | 40 | 60 |

| | | | | | | | |
|---|-----------|---|----|----|---|----|----|
| | | / Advanced Tamil | | | | | |
| 7 | Part – IV | Skill Based Subject Soft Skills – II | 2 | 3 | 3 | 40 | 60 |
| | Total | | 30 | 24 | | | |

THIRD SEMESTER

| Sl.No | Course Component | Name of the Course | Instructional Hours | Credits | Examination Hours | Max. Marks | |
|-------|---------------------|--|------------------------|---------|----------------------|---------------|-----|
| | | | | | | CIA | ESE |
| 1 | Part – I | Language – III | 6 | 3 | 3 | 40 | 60 |
| 2 | Part – II | English – III | 5 | 3 | 3 | 40 | 60 |
| 3 | Part – III | Core IV Broadcast Journalism | 5 | 5 | 3 | 40 | 60 |
| 4 | Part – III | Core V Political Issues in India | 5 | 5 | 3 | 40 | 60 |
| 5 | Part – III | Allied IV Photo Journalism [Practical] | 6 | 4 | 3 | *40 | *60 |
| 6 | Part – IV | Skill Based Subject Soft Skills – III | 2 | 3 | 3 | 40 | 60 |

| | | | | | | | |
|---|-----------|----------------------|----|----|--------------------------------------|--|--|
| 7 | Part – IV | Enviromental Studies | 1 | | Examination will held in Semester IV | | |
| | Total | | 30 | 23 | | | |

FOURTH SEMESTER

| Sl.No | Course Component | Name of the Course | Instructional Hours | Credits | Examination Hours | Max. Marks | |
|-------|------------------|--|---------------------|---------|-------------------|------------|-----|
| | | | | | | CIA | ESE |
| 1 | Part – I | Language – IV | 6 | 3 | 3 | 40 | 60 |
| 2 | Part – II | English – IV | 4 | 3 | 3 | 40 | 60 |
| 3 | Part – III | Core VI Economic Issues in India | 5 | 5 | 3 | 40 | 60 |
| 4 | Part – III | Allied V Indian Constitution and Legal System | 5 | 4 | 3 | 40 | 60 |
| 5 | Part – III | Elective I Film Appreciation/Human Rights Reporting (P) | 6 | 3 | 3 | 40 | 60 |
| 6 | Part – IV | Skill Based Subject Soft Skills – IV | 2 | 3 | 3 | 40 | 60 |
| 7 | Part – IV | Enviromental Studies | 2 | 2 | 3 | 40 | 60 |
| | Total | | 30 | 23 | | | |

FIFTH SEMESTER

| Sl.No | Course Component | Name of the Course | Instructional Hours | Credits | Examination Hours | Max. Marks | |
|-------|------------------|---|---------------------|---------|-------------------|------------|---------|
| | | | | | | CI A | ES E |
| 1 | Part – III | Core VII Press Laws and Ethics | 6 | 5 | 3 | 40 | 60 |
| 2 | Part – III | Core VIII Online Journalism | 6 | 5 | 3 | 40 | 60 |
| 3 | Part – III | Core IX Internship | 5 | 5 | 3 | 40 | 60 |
| 4 | Part – III | Elective II (Interdisciplinary Elective) – Writing for Media | 5 | 3 | 3 | 40 | 60 |
| 5 | Part – III | Elective III Documentary/News Production (P) | 6 | 3 | - | - | - |
| 8 | Part – IV | Value Education | 2 | 2 | 3 | 40 | 60 |
| | Total | | 30 | 23 | | | |

SIXTH SEMESTER

| Sl.No | Course Component | Name of the Course | Instructional Hours | Credits | Examination Hours | Max. Marks | |
|-------|------------------|---|---------------------|---------|-------------------|------------|---------|
| | | | | | | CI A | ES E |
| 1 | Part – III | Core X Mass Communication Theories | 6 | 5 | 3 | 40 | 60 |
| 2 | Part – III | Core XI Media Organisation | 6 | 5 | 3 | 40 | 60 |
| 3 | Part – III | Elective IV Environmental Journalism/Advocacy Journalism (P) | 6 | 3 | 3 | 40 | 60 |
| 4 | Part – III | Elective V Developmental Journalism/Cultural Journalism (P) | 6 | 3 | - | - | - |
| 5 | Part – III | Core XII (Practical)Web magazine/Tabloid | 6 | 5 | - | - | - |
| 8 | Part – V | Extension Activity | | 1 | | | |
| | Total | | 30 | 22 | | | |