

MANONMANIAM SUNDARANAR UNIVERSITY
TIRUNELVELI
 UG COURSES – AFFILIATED COLLEGES

B.A. English

(Choice Based Credit System)

(with effect from the academic year 2017-2018 onwards)

| Sem | Part I/II/ III/IV | Sub. No | Subject Status | SUBJECT TITLE | Hrs/ Week | Cre dits | Marks | | | | |
|-----------|-------------------------|------------|---------------------------|---------------------------------------|--------------|-------------|---------|------|-----|--------------------|------|
| | | | | | | | Maximum | | | Passing Minimum | |
| | | | | | | | Int. | Ext. | Tot | Ext. | Tot. |
| III | I | 1 | Language | TAMIL/OTHER LANGUAGE | 6 | 4 | 25 | 75 | 100 | 30 | 40 |
| | II | 2 | Language | ENGLISH | 6 | 4 | 25 | 75 | 100 | 30 | 40 |
| | III | 3 | Core- 7 | HISTORY OF ENGLISH LITERATURE-I | 5 | 4 | 25 | 75 | 100 | 30 | 40 |
| | III | 4 | Core - 8 | BRITISH POETRY | 4 | 4 | 25 | 75 | 100 | 30 | 40 |
| | III | 5 | Allied – 3 | CARIBBEAN LITERATURE | 3 | 3 | 25 | 75 | 100 | 30 | 40 |
| | III | 6 | Skilled-Based Core-1 | PHONETICS AND SPOKEN ENGLISH | 4 | 4 | 25 | 75 | 100 | 30 | 40 |
| | IV | 7 | Non Major Elective - 1 | ENGLISH FOR EMPLOYABILITY | 2 | 2 | 25 | 75 | 100 | 30 | 40 |
| | IV | 8 | Common | YOGA | 2 | 2 | | | | | |
| SUB TOTAL | | | | | 30* | 25* | | | | | |

* Excluding Yoga

| Sem | Part I/II/ III/IV | Sub. No | Subject Status | SUBJECT TITLE | Hrs/ Week | Cre dits | Marks | | | | |
|----------|-------------------------|------------|-------------------------|--|--------------|-------------|---------|------|-----|--------------------|------|
| | | | | | | | Maximum | | | Passing Minimum | |
| | | | | | | | Int. | Ext. | Tot | Ext. | Tot. |
| IV | I | 1 | Language | TAMIL/OTHER LANGUAGE | 6 | 4 | 25 | 75 | 100 | 30 | 40 |
| | II | 2 | Language | ENGLISH | 6 | 4 | 25 | 75 | 100 | 30 | 40 |
| | III | 3 | Core- 9 | HISTORY OF ENGLISH LITERATURE-II | 5 | 4 | 25 | 75 | 100 | 30 | 40 |
| | III | 4 | Core- 10 | BRITISH DRAMA | 4 | 4 | 25 | 75 | 100 | 30 | 40 |
| | III | 5 | Allied - 4 | CHICANO LITERATURE | 3 | 3 | 25 | 75 | 100 | 30 | 40 |
| | III | 6 | Skill Based Core-2 | ECO ENGLISH | 4 | 4 | 25 | 75 | 100 | 30 | 40 |
| | IV | 7 | Non Major Elective-2 | BUSINESS COMMUNICATION | 2 | 2 | 25 | 75 | 100 | 30 | 40 |
| | IV | 8 | Common | COMPUTER FOR DIGITAL ERA | 2 | 2 | | | | | |
| | V | 9 | Extension Activity | NCC, NSS, YRC, YWF | | 1 | | | | | |
| SUBTOTAL | | | | | 30* | 26* | | | | | |

* Excluding "Computer for Digital Era."

| Sem | Part III/ IV | Sub. No | Subject Status | SUBJECT TITLE | Hrs/ week | Cre dits | Marks | | | | |
|-----------|--------------------|------------|---|--|--------------|-------------|---------|-----|-----|--------------------|-----|
| | | | | | | | Maximum | | | Passing Minimum | |
| | | | | | | | Int. | Ext | Tot | Ext. | Tot |
| V | III | 1 | Core - 11 | NON-FICTION | 5 | 4 | 25 | 75 | 100 | 30 | 40 |
| | III | 2 | Core - 12 | LITERARY CRITICS AND APPROACHES | 5 | 4 | 25 | 75 | 100 | 30 | 40 |
| | III | 3 | Core - 13 | WORLD LITERATURE IN TRANSLATION | 5 | 4 | 25 | 75 | 100 | 30 | 40 |
| | III | 4 | Core - 14 | CANADIAN LITERATURE | 5 | 4 | 25 | 75 | 100 | 30 | 40 |
| | III | 5 | Major Electives (select 2 courses out of 3) | WOMEN'S WRITING | 4 | 4 | 25 | 75 | 100 | 30 | 40 |
| | III | 6 | | JOURNALISM AND MASS COMMUNICATION | + | + | | | | | |
| | | | | CREATIVE WRITING IN ENGLISH | 4 | 4 | | | | | |
| | IV | 7 | Skilled-Based Subject-(Common) | PERSONALITY DEVELOPMENT / EFFECTIVE COMMUNICATION / YOUTH LEADERSHIP | 2 | 2 | 25 | 75 | 100 | 30 | 40 |
| SUB TOTAL | | | | | 30 | 26 | | | | | |

MANONMANIAM SUNDARANAR UNIVERSITY

TIRUNELVELI -12

COMMON SKILL BASED SUBJECT FOR U.G. PROGRAMME

Personality Development

UNIT -I

PERSONALITY - Definition – Determinants – Personality Traits –Theories of Personality – Importance of Personality Development. **SELF AWARENESS** – Meaning – Benefits of Self – Awareness – Developing Self – Awareness. **SWOT** – Meaning – Importance- Application – Components. **GOAL SETTING** Meaning- Importance – Effective goal setting – Principles of goal setting – Goal setting at the Right level.

UNIT – II

SELF MONITORING – Meaning – High self – monitor versus low self monitor – Advantages and Disadvantages self monitor- Self –monitoring and job performance. **PERCEPTION**- Definition- Factor influencing perception- Perception process –Errors in perception – Avoiding perceptual errors. **ATTITUDE** – Meaning- Formation of attitude – Types of attitude - Measurement of Attitudes – Barriers to attitude change – Methods to attitude change. **ASSERTIVENESS** - Meaning – Assertiveness in Communication – Assertiveness Techniques – Benefits of being Assertive – Improving Assertiveness.

UNIT – III

TEAM BUILDING – Meaning – Types of teams – Importance of Team building- Creating Effective Team. **LEADERSHIP** – Definition – Leadership style- Theories of leadership – Qualities of an Effect leader. **NEGOTIATION SKILLS** – Meaning – Principles of Negotiation – Types of Negotiation – The Negotiation Process – Common mistakes in Negotiation process. **CONFLICT MANAGEMENT** – Definition- Types of Conflict- Levels of Conflict – Conflict Resolution – Conflict management .

UNIT –IV

COMMUNICATION – Definition – Importance of communication – Process of communication - Communication Symbols – Communication network – Barriers in communication – Overcoming Communication Barriers. **TRANSACTIONAL ANALYSIS** – Meaning – EGO States – Types of Transactions – Johari Window- Life Positions. **EMOTIONAL INTELLIGENCE**- Meaning – Components of Emotional Intelligence- Significance of managing Emotional intelligence – How to develop Emotional Quotient. **STRESS MANAGEMENT** – Meaning – Sources of Stress – Symptoms of Stress – Consequences of Stress – Managing Stress

UNIT – V

SOCIAL GRACES – Meaning – Social Grace at Work – Acquiring Social Graces. **TABLE MANNERS** – Meaning – Table Etiquettes in Multicultural Environment- Do's and Don'ts of Table Etiquettes. **DRESS CODE** – Meaning- Dress Code for selected Occasions – Dress Code for an Interview. **GROUP DISCUSSION** – Meaning – Personality traits required for Group Discussion- Process of Group Discussion- Group Discussion Topics. **INTERVIEW** – Definition- Types of skills – Employer Expectations –Planning for the Interview – Interview Questions- Critical Interview Questions.

References :

1. Dr.S. Narayana Rajan, Dr. B. Rajasekaran, G. Venkadasalaphi, V. Vijuresh Nayaham and Herald M.Dhas, **Personality Development**, Publication Division, Manonmaniam Sundaranar University, Tirunelveli
2. Stephan P.Robbins, **Organisational Behaviour**, Tenth Edition, Prentice Hall of India Private Limited, New Delhi,2008
3. Jit S. Chandan, **Oragnisational Behaviour**, Third Edition, Vikas Publishing House Private Limited, 2008
4. Dr.K.K. Ramachandran and Dr.K.K. Karthick, **From Campus to Corporate**, Macmillan Publishers India Limited, New Delhi,2010.

MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVELI

UG COURSES – AFFILIATED COLLEGES

B.Sc. Mathematics

(Choice Based Credit System)

(with effect from the academic year 2017-2018 onwards)

| Sem | Part | Sub. No | Subject Status | Subject title | Hrs / Week | Credits | Marks | | | | |
|-----|------|---------|------------------------|---|------------|---------|---------|------|------|-----------------|------|
| | | | | | | | Maximum | | | Passing minimum | |
| | | | | | | | Int. | Ext. | Tot. | Ext. | Tot. |
| I | I | 1 | Language | Tamil/Other Languages | 6 | 4 | 25 | 75 | 100 | 30 | 40 |
| | II | 2 | Language | English | 6 | 4 | 25 | 75 | 100 | 30 | 40 |
| | III | 3 | Core -1 | Calculus | 5 | 4 | 25 | 75 | 100 | 30 | 40 |
| | | 4 | Core-2 | Classical Algebra | 5 | 4 | 25 | 75 | 100 | 30 | 40 |
| | | 5 | Allied-I | Statistics-I OR Physics/ Chemistry/ Computer Science With Practicals | 6 | 3 | 25 | 75 | 100 | 30 | 40 |
| | | | | | 6 | 4 | 25 | 75 | 100 | 30 | 40 |
| IV | 6 | Common | Environmental Studies | 2 | 2 | 25 | 75 | 100 | 30 | 40 | |
| II | I | 7 | Language | Tamil/Other Languages | 6 | 4 | 25 | 75 | 100 | 30 | 40 |
| | II | 8 | Language | English | 6 | 4 | 25 | 75 | 100 | 30 | 40 |
| | III | 9 | Core-3 | Analytical Geometry of Three Dimensions | 5 | 4 | 25 | 75 | 100 | 30 | 40 |
| | | 10 | Core-4 | Differential Equations | 5 | 4 | 25 | 75 | 100 | 30 | 40 |
| | | 11 | Allied-I | Statistics -II OR Physics/ Chemistry/ Computer Science With Practicals | 6 | 3 | 25 | 75 | 100 | 30 | 40 |
| | | | | | 6 | 4 | 25 | 75 | 100 | 30 | 40 |
| IV | 12 | Common | Value Based Education/ | 2 | 2 | 25 | 75 | 100 | 30 | 40 | |

| | | | | | | | | | | | |
|-----|--|-----------------|----------------------|--|----|----|-----|-----|-----|----|----|
| | | | | Social Harmony | | | | | | | |
| III | I | 13 | Language | Tamil/Other Languages | 6 | 4 | 25 | 75 | 100 | 30 | 40 |
| | II | 14 | Language | English | 6 | 4 | 25 | 75 | 100 | 30 | 40 |
| | III | 15 | Core-5 | Real Analysis-I | 6 | 4 | 25 | 75 | 100 | 30 | 40 |
| | | 16 | Allied-II | Statistics-I | 6 | 3 | 25 | 75 | 100 | 30 | 40 |
| | | | | OR Physics /Chemistry With Practicals | 6 | 4 | 25 | 75 | 100 | 30 | 40 |
| 17 | Skilled Based core | Vector Calculus | 4 | 4 | 25 | 75 | 100 | 30 | 40 | | |
| | IV | 18 | Non-major Elective | Any one of the following 1.1) Mathematics for Competitive Examinations I 1.2) Fundamentals of Statistics I | 2 | 2 | 25 | 75 | 100 | 30 | 40 |
| IV | I | 19 | Language | Tamil/Other Languages | 6 | 4 | 25 | 75 | 100 | 30 | 40 |
| | II | 20 | Language | English | 6 | 4 | 25 | 75 | 100 | 30 | 40 |
| | III | 21 | Core-6 | Abstract Algebra I | 5 | 4 | 25 | 75 | 100 | 30 | 40 |
| | | 22 | Allied-II | Statistics II | 6 | 3 | 25 | 75 | 100 | 30 | 40 |
| | OR Physics/ Chemistry with Practicals | | | 6 | 4 | 25 | 75 | 100 | 30 | 40 | |
| | IV | 23 | Non-major Elective | Any one of the following 2.1) Mathematics for Competitive Examinations II 2.2) Fundamentals of Statistics II | 2 | 2 | 25 | 75 | 100 | 30 | 40 |
| | | 24 | Common | Personality Development and Yoga | 4 | 4 | 25 | 75 | 100 | 30 | 40 |
| V | | | Extension Activities | NCC/NSS/YRC/YWF | - | 1 | - | - | - | - | - |

| | | | | | | | | | | | |
|----|-----|----|----------------------|---|---|---|----|----|-----|----|----|
| V | III | 25 | Core-7 | Abstract Algebra II | 5 | 4 | 25 | 75 | 100 | 30 | 40 |
| | | 26 | Core-8 | Real Analysis II | 6 | 4 | 25 | 75 | 100 | 30 | 40 |
| | | 27 | Core-9 | Mechanics | 5 | 4 | 25 | 75 | 100 | 30 | 40 |
| | | 28 | Major Elective -I | Any one of the following 1.1. Astronomy -I 1.2.Discrete Mathematics 1.3.Programming in C | 4 | 4 | 25 | 75 | 100 | 30 | 40 |
| | | 29 | Major Elective-II | Any one of the following 2.1.Operations Research - I 2.2.Combinatorial Mathematics 2.3.Numerical Methods | 4 | 4 | 25 | 75 | 100 | 30 | 40 |
| | III | 30 | Skilled Based Major | Trigonometry , Fourier series and Laplace transforms | 4 | 4 | 25 | 75 | 100 | 30 | 40 |
| | IV | 31 | Skilled Based Common | Computers for Digital Era | 2 | 2 | 25 | 75 | 100 | 30 | 40 |
| VI | III | 32 | Core-11 | Complex Analysis | 5 | 4 | 25 | 75 | 100 | 30 | 40 |
| | | 33 | Core-12 | Number Theory | 4 | 4 | 25 | 75 | 100 | 30 | 40 |
| | | 34 | Core-13 | Graph Theory | 5 | 4 | 25 | 75 | 100 | 30 | 40 |
| | | 35 | Major Elective-III | Any one of the following 3.1 Astronomy II 3.2Fuzzy Mathematics 3.3 Mathematical Modeling | 4 | 4 | 25 | 75 | 100 | 30 | 40 |
| | | 36 | Major Elective-IV | Any one of the following 4.1 Operations Research II 4.2 Coding Theory 4.3 LaTeX | 4 | 4 | 25 | 75 | 100 | 30 | 40 |
| | | 37 | Major Project | Group Project | 8 | 8 | 25 | 75 | 100 | 30 | 40 |

MANONMANIAM SUNDARANAR UNIVERSITY

TIRUNELVELI -12

COMMON SKILL BASED SUBJECT FOR U.G. PROGRAMME

Personality Development

UNIT -I

PERSONALITY - Definition – Determinants – Personality Traits –Theories of Personality – Importance of Personality Development. **SELF AWARENESS** – Meaning – Benefits of Self – Awareness – Developing Self – Awareness. **SWOT** – Meaning – Importance- Application – Components. **GOAL SETTING** Meaning- Importance – Effective goal setting – Principles of goal setting – Goal setting at the Right level.

UNIT – II

SELF MONITORING – Meaning – High self – monitor versus low self monitor – Advantages and Disadvantages self monitor- Self –monitoring and job performance. **PERCEPTION**- Definition- Factor influencing perception- Perception process –Errors in perception – Avoiding perceptual errors. **ATTITUDE** – Meaning- Formation of attitude – Types of attitude - Measurement of Attitudes – Barriers to attitude change – Methods to attitude change. **ASSERTIVENESS** - Meaning – Assertiveness in Communication – Assertiveness Techniques – Benefits of being Assertive – Improving Assertiveness.

UNIT – III

TEAM BUILDING – Meaning – Types of teams – Importance of Team building- Creating Effective Team. **LEADERSHIP** – Definition – Leadership style- Theories of leadership – Qualities of an Effect leader. **NEGOTIATION SKILLS** – Meaning – Principles of Negotiation – Types of Negotiation – The Negotiation Process – Common mistakes in Negotiation process. **CONFLICT MANAGEMENT** – Definition- Types of Conflict- Levels of Conflict – Conflict Resolution – Conflict management .

UNIT –IV

COMMUNICATION – Definition – Importance of communication – Process of communication - Communication Symbols – Communication network – Barriers in communication – Overcoming Communication Barriers. **TRANSACTIONAL ANALYSIS** – Meaning – EGO States – Types of Transactions – Johari Window- Life Positions. **EMOTIONAL INTELLIGENCE**- Meaning – Components of Emotional Intelligence- Significance of managing Emotional intelligence – How to develop Emotional Quotient. **STRESS MANAGEMENT** – Meaning – Sources of Stress – Symptoms of Stress – Consequences of Stress – Managing Stress

UNIT – V

SOCIAL GRACES – Meaning – Social Grace at Work – Acquiring Social Graces. **TABLE MANNERS** – Meaning – Table Etiquettes in Multicultural Environment- Do's and Don'ts of Table Etiquettes. **DRESS CODE** – Meaning- Dress Code for selected Occasions – Dress Code for an Interview. **GROUP DISCUSSION** – Meaning – Personality traits required for Group Discussion- Process of Group Discussion- Group Discussion Topics. **INTERVIEW** – Definition- Types of skills – Employer Expectations –Planning for the Interview – Interview Questions- Critical Interview Questions.

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2. Stephan P.Robbins, **Organisational Behaviour**, Tenth Edition, Prentice Hall of India Private Limited, New Delhi,2008
3. Jit S. Chandan, **Organisational Behaviour**, Third Edition, Vikas Publishing House Private Limited, 2008
4. Dr.K.K. Ramachandran and Dr.K.K. Karthick, **From Campus to Corporate**, Macmillan Publishers India Limited, New Delhi,2010.

**MANONMANIAM SUNDARANAR UNIVERSITY
TIRUNELVELI**

**UG COURSES – AFFILIATED COLLEGES
B.Sc. Physics**

(Choice Based Credit System)

(With effect from the academic year 2017 -2018)

| | | | | | | | | | | | |
|--|---------------------|--|-----------|-----------|---|----|----|-----|-----|----|----|
| S e m e s t e r - I I I | Part I | Tamil/Other Languages | 6 | 4 | 3 | 25 | 75 | 100 | 30 | 40 | |
| | Part II | English | 6 | 4 | 3 | 25 | 75 | 100 | 30 | 40 | |
| | Part III | <u>Core subjects</u> 5.Electricity | | 4 | 4 | 3 | 25 | 75 | 100 | 30 | 40 |
| | | Practical-III | | 2 | 1 | 3 | 50 | 50 | 100 | 20 | 40 |
| | | <u>Allied Subject-II</u> (for allied subjects with theory and practicals) 1.Theory- Paper-I | | 4 | 3 | 3 | 25 | 75 | 100 | 30 | 40 |
| | | 2.Practicals-1 | | 2 | 1 | 3 | 50 | 50 | 100 | 20 | 40 |
| | | <u>Allied Subject-II</u> (for allied subjects with theory alone) 1.Theory- Paper-I | | 6 | 3 | 3 | 25 | 75 | 100 | 30 | 40 |
| | | <u>Skill based subject</u> Any one a. Maintanance of Electrical appliances b. Astrophysics | | 4 | 4 | 3 | 25 | 75 | 100 | 30 | 40 |
| | | Non-Major Elective Paper-I | | 2 | 2 | 3 | 25 | 75 | 100 | 30 | 40 |
| | Part IV | Common-Yoga * | 2 | 2 | | | | | | | |
| | Total | | 30 | 23 | | | | | | | |

| | | | | | | | | | | | |
|--------------------|---|---|---|-----------|-----------|----|----|-----|-----|----|----|
| Semester IV | Part I | Tamil/Other Languages | 6 | 4 | 3 | 25 | 75 | 100 | 30 | 40 | |
| | Part I | English | 6 | 4 | 3 | 25 | 75 | 100 | 30 | 40 | |
| | Part III | <u>Core subjects</u> | | 4 | 4 | 3 | 25 | 75 | 100 | 30 | 40 |
| | | 6. Electromagnetism Practical-IV | | 2 | 1 | 3 | 50 | 50 | 100 | 20 | 40 |
| | | <u>Allied Subject-II</u> (for allied subjects with theory and practicals) | | 4 | 3 | 3 | 25 | 75 | 100 | 30 | 40 |
| | | 1.Theory- Paper-II | | | | | | | | | |
| | | 2.Practicals-II | | 2 | 1 | 3 | 50 | 50 | 100 | 20 | 40 |
| | | <u>Allied Subject-II</u> (for allied subjects with theory alone) | | 6 | 3 | 3 | 25 | 75 | 100 | 30 | 40 |
| | | 1.Theory- Paper-II | | | | | | | | | |
| | <u>Skill based subject</u> Any one a. Maintanance of Electronic appliances b. Physics of Human Anatomy | | 4 | 4 | 3 | 25 | 75 | 100 | 30 | 40 | |
| | Part IV | Non-Major Elective - Paper-II | | 2 | 2 | 3 | 25 | 75 | 100 | 30 | 40 |
| | | Common-Computer for Digital Era * | | 2 | 2 | | | | | | |
| | Part V | Extension activity | | - | 1 | - | - | - | - | - | - |
| | | Total | | 30 | 24 | | | | | | |

| | | | | | | | | | | |
|--------------------|--------------------------|---|-----------|-----------|----------|-----------|-----------|------------|-----------|-----------|
| Semester -V | Part III | Core subjects | | | | | | | | |
| | | 7.Basic Electronics | 4 | 4 | 3 | 25 | 75 | 100 | 30 | 40 |
| | | 8.Programming in C++ | 4 | 4 | 3 | 25 | 75 | 100 | 30 | 40 |
| | | 9.Atomic Physics | 4 | 4 | 3 | 25 | 75 | 100 | 30 | 40 |
| | | 10.Major Elective I (any one) a. Mathematical Physics b. Spectroscopy | 4 | 4 | 3 | 25 | 75 | 100 | 30 | 40 |
| | | 11.Major ElectiveII (any one) a. Communication Electronics b. Numerical Methods | 4 | 4 | 3 | 25 | 75 | 100 | 30 | 40 |
| | | Practical-V-Non Electronics | 4 | 2 | 3 | 50 | 50 | 100 | 20 | 40 |
| | Practical-VI-Electronics | 4 | 2 | 3 | 50 | 50 | 100 | 20 | 40 | |
| | Part IV | Skill based subject(Common)-Personality development/Effective Communication/Youth Leadership | 2 | 2 | 3 | 25 | 75 | 100 | 30 | 40 |
| | | Total | 30 | 26 | | | | | | |

MANONMANIAM SUNDARANAR UNIVERSITY

TIRUNELVELI -12

COMMON SKILL BASED SUBJECT FOR U.G. PROGRAMME

Personality Development

UNIT -I

PERSONALITY - Definition – Determinants – Personality Traits –Theories of Personality – Importance of Personality Development. **SELF AWARENESS** – Meaning – Benefits of Self – Awareness – Developing Self – Awareness. **SWOT** – Meaning – Importance- Application – Components. **GOAL SETTING** Meaning- Importance – Effective goal setting – Principles of goal setting – Goal setting at the Right level.

UNIT – II

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UNIT – III

TEAM BUILDING – Meaning – Types of teams – Importance of Team building- Creating Effective Team. **LEADERSHIP** – Definition – Leadership style- Theories of leadership – Qualities of an Effect leader. **NEGOTIATION SKILLS** – Meaning – Principles of Negotiation – Types of Negotiation – The Negotiation Process – Common mistakes in Negotiation process. **CONFLICT MANAGEMENT** – Definition- Types of Conflict- Levels of Conflict – Conflict Resolution – Conflict management .

UNIT –IV

COMMUNICATION – Definition – Importance of communication – Process of communication - Communication Symbols – Communication network – Barriers in communication – Overcoming Communication Barriers. **TRANSACTIONAL ANALYSIS** – Meaning – EGO States – Types of Transactions – Johari Window- Life Positions. **EMOTIONAL INTELLIGENCE**- Meaning – Components of Emotional Intelligence- Significance of managing Emotional intelligence – How to develop Emotional Quotient. **STRESS MANAGEMENT** – Meaning – Sources of Stress – Symptoms of Stress – Consequences of Stress – Managing Stress

UNIT – V

SOCIAL GRACES – Meaning – Social Grace at Work – Acquiring Social Graces. **TABLE MANNERS** – Meaning – Table Etiquettes in Multicultural Environment- Do's and Don'ts of Table Etiquettes. **DRESS CODE** – Meaning- Dress Code for selected Occasions – Dress Code for an Interview. **GROUP DISCUSSION** – Meaning – Personality traits required for Group Discussion- Process of Group Discussion- Group Discussion Topics. **INTERVIEW** – Definition- Types of skills – Employer Expectations –Planning for the Interview – Interview Questions- Critical Interview Questions.

References :

1. Dr.S. Narayana Rajan, Dr. B. Rajasekaran, G. Venkadasalaphi, V. Vijuresh Nayaham and Herald M.Dhas, **Personality Development**, Publication Division, Manonmaniam Sundaranar University, Tirunelveli
2. Stephan P.Robbins, **Organisational Behaviour**, Tenth Edition, Prentice Hall of India Private Limited, New Delhi,2008
3. Jit S. Chandan, **Oragnisational Behaviour**, Third Edition, Vikas Publishing House Private Limited, 2008
4. Dr.K.K. Ramachandran and Dr.K.K. Karthick, **From Campus to Corporate**, Macmillan Publishers India Limited, New Delhi,2010.

MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVELI

UG COURSES – AFFILIATED COLLEGES

B.Sc. Chemistry

(Choice Based Credit System)

(with effect from the academic year 2017-2018 onwards)

| Sem | Pt | Sub No | Subject Status | Subject Title | Con Tact Hrs/wk | L Hrs/wk | P Hrs/wk | Credits |
|-----|-----|--------|----------------------------|----------------------------------|-----------------|-----------|----------|-----------|
| I | I | 1 | Language | Tamil/Other Languages | 6 | 6 | 0 | 4 |
| | II | 2 | Language | English | 6 | 6 | 0 | 4 |
| | III | 3 | Core – Paper I | Inorganic Chemistry - I | 4 | 4 | 0 | 4 |
| | III | 4 | Core – Paper - II | Physical Chemistry - I | 4 | 4 | 0 | 4 |
| | III | 5 | Major Practical - I | Volumetric Analysis - I | 2 | 0 | 2 | 2 |
| | III | 6 | Allied I- Paper – I | Allied Chemistry - I | 4 | 4 | 0 | 3 |
| | III | 7 | Allied Practical-I | Allied Chemistry Practical- I | 2 | 0 | 2 | 2 |
| | IV | 8 | Common | Environmental Studies | 2 | 2 | 0 | 2 |
| | | | Subtotal | | 30 | 26 | 4 | 25 |
| II | I | 9 | Language | Tamil/Other Languages | 6 | 6 | 0 | 4 |
| | II | 10 | Language | English | 6 | 6 | 0 | 4 |
| | III | 11 | Core –Paper III | Inorganic Chemistry - II | 4 | 4 | 0 | 4 |
| | III | 12 | Core – Paper IV | Organic Chemistry - I | 4 | 4 | 0 | 4 |
| | III | 13 | Major Practical II | Volumetric Analysis - II | 2 | 0 | 2 | 2 |
| | III | 14 | Allied 1 -Paper – II | Allied Chemistry - II | 4 | 4 | 0 | 3 |
| | III | 15 | Allied Practical-II | Allied Chemistry Practical- II | 2 | 0 | 2 | 2 |
| | IV | 16 | Common | Social Value Education | 2 | 2 | 0 | 2 |
| | | | Subtotal | | 30 | 26 | 4 | 25 |
| III | I | 17 | Language | Tamil/Other Languages | 6 | 6 | 0 | 4 |
| | II | 18 | Language | English | 6 | 6 | 0 | 4 |
| | III | 19 | Core – Paper V | Organic Chemistry - II | 4 | 4 | 0 | 4 |
| | III | 20 | Major Practical - III | Inorganic Qualitative Analysis | 2 | 0 | 2 | 2 |
| | III | 21 | Allied - II | Allied Chemistry - I | 4 | 4 | 0 | 3 |
| | III | 22 | Allied Practical - II | Allied Chemistry Practical- I | 2 | 0 | 2 | 2 |
| | III | 23 | Skilled Based-I Core | Agro Chemistry/Food Chemistry | 4 | 4 | 0 | 4 |
| | IV | 24 | Non-Major Elective -I | Food Chemistry /Water Management | 2 | 2 | 0 | 2 |
| | | | Subtotal | | 30 | 26 | 4 | 25 |
| IV | I | 25 | Language | Tamil/Other Languages | 6 | 6 | 0 | 4 |
| | II | 26 | Language | English | 6 | 6 | 0 | 4 |
| | III | 27 | Core – Paper VI | Physical Chemistry - II | 4 | 4 | 0 | 4 |
| | III | 28 | Major Practical IV | Organic Analysis | 2 | 0 | 2 | 2 |
| | III | 29 | Allied - II | Allied Chemistry - II | 4 | 4 | 0 | 3 |
| | III | 30 | Allied Practical II | Allied Chemistry Practical- II | 2 | 0 | 2 | 2 |
| | IV | 31 | Skilled Based II Common | Personality Development and Yoga | 4 | 4 | 0 | 4 |

| | | | | | | | | |
|--------------------|-----|----|----------------------------------|---|-----------------|------------|-----------|------------|
| | IV | 32 | Non-Major Elective - II | Dairy Chemistry / Applied Chemistry | 2 | 2 | 0 | 2 |
| | V | | Extension Activity | NCC/NSS/YRC/YWF | - | - | - | 1 |
| | | | | Subtotal | 30 | 26 | 4 | 26 |
| V | III | 33 | Core – Paper VII | Organic Chemistry - III | 5 | 5 | 0 | 4 |
| | III | 34 | Core – Paper VIII | Physical Chemistry - III | 5 | 5 | 0 | 4 |
| | III | 35 | Major Elective-I | Polymer Chemistry / Bio Inorganic Chemistry | 5 | 5 | 0 | 4 |
| | III | 36 | Major Elective - II | Analytical Chemistry / Pharmaceutical Chemistry | 5 | 5 | 0 | 4 |
| | III | 37 | Major Practical V | Inorganic Preparation and Physical Constant Determination | 8 | 0 | 8 | 6 |
| | III | 38 | Major Practical VI | Organic Estimation | | | | |
| | III | 39 | Major Practical VII | Physical Chemistry Estimations | | | | |
| | IV | 40 | Skill Based III Common | Computer | 2 | 2 | 0 | 2 |
| | | | | | Subtotal | 30 | 22 | 8 |
| VI | III | 41 | Core Paper IX | Inorganic Chemistry - III | 6 | 6 | 0 | 4 |
| | III | 42 | Core Paper X | Organic Chemistry - IV | 6 | 6 | 0 | 4 |
| | III | 43 | Core Paper XI | Physical Chemistry - IV | 5 | 5 | 0 | 4 |
| | III | 44 | Major Practical VII, VIII and IX | Gravimetric Estimation | 8 | 0 | 8 | 6 |
| | III | 45 | Major Practical VIII | Organic Preparation | | | | |
| | III | 46 | Major Practical IX | Physical Chemistry Experiments - II | | | | |
| | III | 47 | Group Project | Group Project | 5 | | 5 | 4 |
| | | | | Subtotal | 30 | 17 | 13 | 22 |
| Grand Total | | | | | 180 | 143 | 37 | 147 |

MANONMANIAM SUNDARANAR UNIVERSITY

TIRUNELVELI -12

COMMON SKILL BASED SUBJECT FOR U.G. PROGRAMME

Personality Development

UNIT -I

PERSONALITY - Definition – Determinants – Personality Traits –Theories of Personality – Importance of Personality Development. **SELF AWARENESS** – Meaning – Benefits of Self – Awareness – Developing Self – Awareness. **SWOT** – Meaning – Importance- Application – Components. **GOAL SETTING** Meaning- Importance – Effective goal setting – Principles of goal setting – Goal setting at the Right level.

UNIT – II

SELF MONITORING – Meaning – High self – monitor versus low self monitor – Advantages and Disadvantages self monitor- Self –monitoring and job performance. **PERCEPTION**- Definition- Factor influencing perception- Perception process –Errors in perception – Avoiding perceptual errors. **ATTITUDE** – Meaning- Formation of attitude – Types of attitude - Measurement of Attitudes – Barriers to attitude change – Methods to attitude change. **ASSERTIVENESS** - Meaning – Assertiveness in Communication – Assertiveness Techniques – Benefits of being Assertive – Improving Assertiveness.

UNIT – III

TEAM BUILDING – Meaning – Types of teams – Importance of Team building- Creating Effective Team. **LEADERSHIP** – Definition – Leadership style- Theories of leadership – Qualities of an Effect leader. **NEGOTIATION SKILLS** – Meaning – Principles of Negotiation – Types of Negotiation – The Negotiation Process – Common mistakes in Negotiation process. **CONFLICT MANAGEMENT** – Definition- Types of Conflict- Levels of Conflict – Conflict Resolution – Conflict management .

UNIT –IV

COMMUNICATION – Definition – Importance of communication – Process of communication - Communication Symbols – Communication network – Barriers in communication – Overcoming Communication Barriers. **TRANSACTIONAL ANALYSIS** – Meaning – EGO States – Types of Transactions – Johari Window- Life Positions. **EMOTIONAL INTELLIGENCE**- Meaning – Components of Emotional Intelligence- Significance of managing Emotional intelligence – How to develop Emotional Quotient. **STRESS MANAGEMENT** – Meaning – Sources of Stress – Symptoms of Stress – Consequences of Stress – Managing Stress

UNIT – V

SOCIAL GRACES – Meaning – Social Grace at Work – Acquiring Social Graces. **TABLE MANNERS** – Meaning – Table Etiquettes in Multicultural Environment- Do's and Don'ts of Table Etiquettes. **DRESS CODE** – Meaning- Dress Code for selected Occasions – Dress Code for an Interview. **GROUP DISCUSSION** – Meaning – Personality traits required for Group Discussion- Process of Group Discussion- Group Discussion Topics. **INTERVIEW** – Definition- Types of skills – Employer Expectations –Planning for the Interview – Interview Questions- Critical Interview Questions.

References :

1. Dr.S. Narayana Rajan, Dr. B. Rajasekaran, G. Venkadasalaphi, V. Vijuresh Nayaham and Herald M.Dhas, **Personality Development**, Publication Division, Manonmaniam Sundaranar University, Tirunelveli
2. Stephan P.Robbins, **Organisational Behaviour**, Tenth Edition, Prentice Hall of India Private Limited, New Delhi,2008
3. Jit S. Chandan, **Oragnisational Behaviour**, Third Edition, Vikas Publishing House Private Limited, 2008
4. Dr.K.K. Ramachandran and Dr.K.K. Karthick, **From Campus to Corporate**, Macmillan Publishers India Limited, New Delhi,2010.

**MANONMANIAM SUNDARANAR
UNIVERSITY TIRUNELVELI**

**Syllabus for B.Sc. Chemistry Major &
Allied Chemistry (I & II Semesters)**

(With effect from the academic year 2020-2021
onwards)

(I& II Semesters)

1. Objectives

- ★ To impart theoretical and practical skills that underpins the various branches of the Science of Chemistry
- ★ To enable the students to have a thorough understanding and knowledge of different branches of Chemistry
- ★ To make the students to develop the ability to think analytically and solve problems.
- ★ To facilitate the students of B.Sc Chemistry to join PG courses which in turn offer them job opportunities and research pursuits.
- ★ To apply the skills and knowledge gained through the subject to real life situations and face competitive examinations with confidence at National level.
- ★ To create an awareness to ecofriendly microscale experiments in practical courses.

2. Eligibility for Admission

The minimum eligibility conditions for admission to the **B.Sc Chemistry** program are given below.

The candidates for admission into the first semester of the **B.Sc Chemistry** course will be required to have qualified the Higher Secondary Examination conducted by the Board of Higher Secondary Education, Government of Tamil Nadu or any other Examinations accepted by the syndicate of the Manonmaniam Sundaranar University as equivalent there to in Science subject.

3. Duration of the Course

The students shall undergo the prescribed course of study for a period of not less than three academic years (Six semesters). The semester contains 90 working days.

MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVEI
UG – COURSES – AFFILIATED COLLEGES

B.Sc. Chemistry
(Choice Based Credit System)
(with effect from the academic year 2020-21 onwards)

| SEM | Part | SUB. No | SUBJECT STATUS | SUBJECT TITLE | contact hrs /wk | L hrs /wk | P hrs /wk | Credits |
|------------|-------------|----------------|--------------------------|--|------------------------|------------------|------------------|----------------|
| I | I | 1 | Language | Tamil/Other Languages | 6 | 6 | 0 | 4 |
| | II | 2 | Language | Communicative English | 6 | 6 | 0 | 4 |
| | III | 3 | Core – Paper I | Physical Chemistry – I | 4 | 4 | 0 | 4 |
| | III | 4 | Major Practical - I | Inorganic Quantitative (Volumetric) Analysis - I | 2 | 0 | 2 | 2 |
| | III | 5 | Add on Major (Mandatory) | Professional English for Physical Sciences – I | 4 | 4 | 0 | 4 |
| | III | 6 | Allied Paper – I | Allied Chemistry – I | 4 | 4 | 0 | 3 |
| | III | 7 | Allied Practical-I | Allied Chemistry Practical- I | 2 | 0 | 2 | 2 |
| | IV | 8 | Common Paper | Environmental Studies | 2 | 2 | 0 | 2 |
| | | | | SUB TOTAL | | 30 | 26 | 4 |
| II | I | 9 | Language | Tamil/Other Languages | 6 | 6 | 0 | 4 |
| | II | 10 | Language | English | 6 | 6 | 0 | 4 |
| | III | 11 | Core – Paper II | Inorganic Chemistry – I | 4 | 4 | 0 | 4 |
| | III | 12 | Major Practical - II | Inorganic Quantitative (Volumetric) Analysis - II | 2 | 0 | 2 | 2 |
| | III | 13 | Add on Major (Mandatory) | Professional English for Physical Sciences-II | 4 | 4 | 0 | 4 |
| | III | 14 | Allied Paper – II | Allied Chemistry – II | 4 | 4 | 0 | 3 |
| | III | 15 | Allied Practical-II | Allied Chemistry Practical- II | 2 | 0 | 2 | 2 |
| | IV | 16 | Common Paper | Value Based Education /சமூகஒழுக்கங்களும் பண்பாட்டு விழுமியங்களும் / Social Harmony | 2 | 2 | 0 | 2 |
| | | | | SUB TOTAL | | 30 | 26 | 4 |

4. Scheme of the Course

MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVEI
UG – COURSES – AFFILIATED COLLEGES
B.Sc. Chemistry
(Choice Based Credit System)
(with effect from the academic year 2020-21 onwards)

| SEM | Part | Sub. No | SUBJECT STATUS | SUBJECT TITLE | Contact hrs/wk | L Hrs /wk | P Hrs /wk | Credits |
|-----|------|-----------------|-------------------------|---|----------------|-------------|-----------|-----------|
| III | I | 17 | Language | Tamil/Other Languages | 6 | 6 | 0 | 4 |
| | II | 18 | Language | English | 6 | 6 | 0 | 4 |
| | III | 19 | Core – Paper V | Organic Chemistry – I | 4 | 4 | 0 | 4 |
| | III | 20 | Major Practical III | Inorganic Qualitative Analysis | 2 | 0 | 2 | 2 |
| | III | 21 | Allied – II | Allied Chemistry – I | 4 | 4 | 0 | 3 |
| | III | 22 | Allied Practical II | Allied Chemistry Practical- I | 2 | 0 | 2 | 2 |
| | III | 23 | Skilled Based-I Core | Agro Chemistry/Food Chemistry | 4 | 4 | 0 | 4 |
| IV | IV | 24 | Non-Major Elective - I | Food Science /Water Management | 2 | 2 | 0 | 2 |
| | IV | 25 | Common | Yoga | 2 | 2 | 0 | 2 |
| | | | SUBTOTAL | | 30+2 | 26+2 | 4 | 27 |
| IV | I | 26 | Language | Tamil/Other Languages | 6 | 6 | 0 | 4 |
| | II | 27 | Language | English | 6 | 6 | 0 | 4 |
| | III | 28 | Core – Paper VI | Organic Chemistry – II | 4 | 4 | 0 | 4 |
| | III | 29 | Major Practical IV | Organic Preparation & Physical Constant Determination | 2 | 0 | 2 | 2 |
| | III | 30 | Allied – II | Allied Chemistry – II | 4 | 4 | 0 | 3 |
| | III | 31 | Allied Practical II | Allied Chemistry Practical- II | 2 | 0 | 2 | 2 |
| | III | 32 | Skilled Based II Core | Chemistry in medicine / Industrial Chemistry | 4 | 4 | 0 | 4 |
| | IV | 33 | Non-Major Elective – II | Dairy Chemistry / Applied Chemistry | 2 | 2 | 0 | 2 |
| | IV | 34 | Common | Computers for Digital Era | 2 | 2 | 0 | 2 |
| | V | 35 | Extension Activity | NCC/NSS/YRC/YWF | - | - | - | 1 |
| | | SUBTOTAL | | 30+2 | 26+2 | 4 | 28 | |

| | | | | | | | | |
|----|-----|--------------------|---------------------|--|------------|-----------|------------|-----------|
| V | III | 36 | Core – Paper VII | Inorganic Chemistry- II | 4 | 4 | 0 | 4 |
| | III | 37 | Core – Paper VIII | Physical Chemistry – II | 6 | 6 | 0 | 4 |
| | III | 38 | Core - Paper-IX | Organic Chemistry – III | 6 | 6 | 0 | 4 |
| | III | 39 | Major Elective-I | Polymer Chemistry / Bio Inorganic Chemistry | 4 | 4 | 0 | 4 |
| | III | 40 | Major Practical V | Organic Analysis | 8 | 0 | 8 | 4 |
| | III | 41 | Major Practical VI | Gravimetric Estimation & Inorganic Preparation | | | | |
| | IV | 42 | Skill Based Common | Personality Development / Effective Communication / Youth Leadership | 2 | 2 | 0 | 2 |
| | | | SUBTOTAL | | 30 | 22 | 08 | 22 |
| VI | III | 43 | Core Paper - X | Inorganic Chemistry – III | 5 | 5 | 0 | 4 |
| | III | 44 | Core Paper - XI | Physical Chemistry – III | 5 | 5 | 0 | 4 |
| | III | 45 | Core Paper - XII | Organic Chemistry - IV | 5 | 5 | 0 | 4 |
| | III | 46 | Major Elective-II | Green Chemistry / Nano Chemistry | 4 | 4 | 0 | 4 |
| | III | 47 | Major Practical VII | Physical Chemistry Experiments | 4 | 0 | 4 | 2 |
| | III | 48 | Major Project | Major Project | 07 | | 07 | 7 |
| | | SUBTOTAL | | 30 | 19 | 11 | 25 | |
| | | GRAND TOTAL | | 180+4 | 143 | 37 | 152 | |

MANONMANIAM SUNDARANAR UNIVERSITY

TIRUNELVELI -12

COMMON SKILL BASED SUBJECT FOR U.G. PROGRAMME

Personality Development

UNIT -I

PERSONALITY - Definition – Determinants – Personality Traits –Theories of Personality – Importance of Personality Development. **SELF AWARENESS** – Meaning – Benefits of Self – Awareness – Developing Self – Awareness. **SWOT** – Meaning – Importance- Application – Components. **GOAL SETTING** Meaning- Importance – Effective goal setting – Principles of goal setting – Goal setting at the Right level.

UNIT – II

SELF MONITORING – Meaning – High self – monitor versus low self monitor – Advantages and Disadvantages self monitor- Self –monitoring and job performance. **PERCEPTION**- Definition- Factor influencing perception- Perception process –Errors in perception – Avoiding perceptual errors. **ATTITUDE** – Meaning- Formation of attitude – Types of attitude - Measurement of Attitudes – Barriers to attitude change – Methods to attitude change. **ASSERTIVENESS** - Meaning – Assertiveness in Communication – Assertiveness Techniques – Benefits of being Assertive – Improving Assertiveness.

UNIT – III

TEAM BUILDING – Meaning – Types of teams – Importance of Team building- Creating Effective Team. **LEADERSHIP** – Definition – Leadership style- Theories of leadership – Qualities of an Effect leader. **NEGOTIATION SKILLS** – Meaning – Principles of Negotiation – Types of Negotiation – The Negotiation Process – Common mistakes in Negotiation process. **CONFLICT MANAGEMENT** – Definition- Types of Conflict- Levels of Conflict – Conflict Resolution – Conflict management .

UNIT –IV

COMMUNICATION – Definition – Importance of communication – Process of communication - Communication Symbols – Communication network – Barriers in communication – Overcoming Communication Barriers. **TRANSACTIONAL ANALYSIS** – Meaning – EGO States – Types of Transactions – Johari Window- Life Positions. **EMOTIONAL INTELLIGENCE**- Meaning – Components of Emotional Intelligence- Significance of managing Emotional intelligence – How to develop Emotional Quotient. **STRESS MANAGEMENT** – Meaning – Sources of Stress – Symptoms of Stress – Consequences of Stress – Managing Stress

UNIT – V

SOCIAL GRACES – Meaning – Social Grace at Work – Acquiring Social Graces. **TABLE MANNERS** – Meaning – Table Etiquettes in Multicultural Environment- Do's and Don'ts of Table Etiquettes. **DRESS CODE** – Meaning- Dress Code for selected Occasions – Dress Code for an Interview. **GROUP DISCUSSION** – Meaning – Personality traits required for Group Discussion- Process of Group Discussion- Group Discussion Topics. **INTERVIEW** – Definition- Types of skills – Employer Expectations –Planning for the Interview – Interview Questions- Critical Interview Questions.

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2. Stephan P.Robbins, **Organisational Behaviour**, Tenth Edition, Prentice Hall of India Private Limited, New Delhi,2008
3. Jit S. Chandan, **Oragnisational Behaviour**, Third Edition, Vikas Publishing House Private Limited, 2008
4. Dr.K.K. Ramachandran and Dr.K.K. Karthick, **From Campus to Corporate**, Macmillan Publishers India Limited, New Delhi,2010.

MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVELI

B.Sc.CHEMISTRY (Affiliated Colleges)

LEARNING OUTCOME BASED CURRICULUM

(For those who joined from 2021-2022 onwards)

VISION AND MISSION OF THE UNIVERSITY

VISION

" To provide quality education to reach the unreached "

MISSION

- To conduct research, teaching and outreach programmes to improve conditions of human living
- To create an academic environment that honours women and men of all races, caste, creed, cultures and an atmosphere that values intellectual curiosity, pursuit of knowledge, academic freedom and integrity
- To offer a wide variety of off-campus educational and training programs, including the use of information technology, to individuals and groups.
- To develop partnership with industries and government so as to improve the quality of the workplace and to serve as catalyst for economic and cultural development
- To provide quality / inclusive education, especially for the rural and un-reached segments of economically downtrodden students including women, socially oppressed and differently abled

VISION AND MISSION OF DEPARTMENT

VISION

To make the students excel in the fields of education, fundamental and advanced research in Chemistry by providing quality education so that they can compete and contribute to the varying *technology*.

MISSION

1. To teach the students to analyze problems ranging from the basics of Chemistry to advanced level.
2. To give the students adequate hands on experience to work in applied fields.

3. To train the students to act as a useful member or effective leader of a team in multidisciplinary setting.

PREAMBLE

The B.Sc Chemistry programme is fundamental to the revolution taking place in Science and Technology. The aim of the programme is to impart basic skills and knowledge on the principles of all branches of Chemistry to cater to need of Society, Scientific Organization and Industries in the context of developing needs of our country by providing extensive coverage on the fundamental aspects of chemistry relating applications of chemistry to life systems. This course provides intensive practical training to develop associate and apply various aspects of chemistry in day to day life .The programme prepares the students to achieve success in competitive examinations and make developments of needs of their life.

Eligibility for the B.Sc Chemistry Programme

B.Sc Chemistry is a three year Undergraduate course which one can apply after completing 12th from science stream. Eligibility for the course says that the interested must have science with subjects as Physics, Chemistry, Mathematics, Biology or Computer Science as their main subjects from any recognized board.

PROGRAMME STRUCTURE

| SEM | Part | SUB. No | SUBJECT STATUS | SUBJECT TITLE | contact hrs /wk | L hrs /wk | P hrs /wk | credits |
|-----|------|---------|---------------------|--|-----------------|-----------|-----------|----------|
| I | I | 1 | Language | Tamil/Other Languages | 6 | 6 | 0 | 4 |
| | II | 2 | Language | Communicative English – I | 6 | 6 | 0 | 4 |
| | III | 3 | Core I | Inorganic Chemistry – I | 4 | 4 | 0 | 4 |
| | III | 4 | Core II | Professional English for Physical Science –I | 4 | 4 | 0 | 4 |
| | III | 5 | Major Practical I | Inorganic quantitative (Volumetric) Analysis – I | 2 | 0 | 2 | 2 |
| | III | 6 | Allied Course I | Allied Chemistry – I | 4 | 4 | 0 | 3 |
| | III | 7 | Allied Practical I | Allied Chemistry Practical- I | 2 | 0 | 2 | 2 |
| | IV | 8 | Common | Environmental Studies | 2 | 2 | 0 | 2 |
| | | | | SUB TOTAL | | 30 | 26 | 4 |
| II | I | 9 | Language | Tamil/Other Languages | 6 | 6 | 0 | 4 |
| | II | 10 | Language | Communicative English – II | 6 | 6 | 0 | 4 |
| | III | 11 | Core III | Organic Chemistry – I | 4 | 4 | 0 | 4 |
| | III | 12 | Core IV | Professional English for Physical Science-II | 4 | 4 | 0 | 4 |
| | III | 13 | Major Practical II | Inorganic quantitative (Volumetric)Analysis – II | 2 | 0 | 2 | 2 |
| | III | 14 | Allied Course II | Allied Chemistry – II | 4 | 4 | 0 | 3 |
| | III | 15 | Allied Practical-II | Allied Chemistry Practical- II | 2 | 0 | 2 | 2 |
| | IV | 16 | Common | Social Value Education | 2 | 2 | 0 | 2 |
| | | | | SUB TOTAL | | 30 | 26 | 4 |

| | | | | | | | | |
|-----|-----|-----------------------|--|--|-------------|----------|-----------|---|
| III | I | 17 | Language | Tamil/Other Languages | 6 | 6 | 0 | 4 |
| | II | 18 | Language | English | 6 | 6 | 0 | 4 |
| | III | 19 | Core V | Physical Chemistry – I | 4 | 4 | 0 | 4 |
| | III | 20 | Major Practical III | Organic Preparation & Inorganic Qualitative Analysis - I | 2 | 0 | 2 | 2 |
| | III | 21 | Allied Course II | Allied Chemistry – I | 4 | 4 | 0 | 3 |
| | III | 22 | Allied Practical II | Allied Chemistry Practical- I | 2 | 0 | 2 | 2 |
| | III | 23 | Skilled Based Course I | Green Chemistry/Food Chemistry | 4 | 4 | 0 | 4 |
| | IV | 24 | Non-Major Elective I | Food Science /Water Management | 2 | 2 | 0 | 2 |
| | IV | 25 | Common | Yoga | 2 | 2 | 0 | 2 |
| | | | SUBTOTAL | 30+2 | 26+2 | 4 | 27 | |
| IV | I | 26 | Language | Tamil/Other Languages | 6 | 6 | 0 | 4 |
| | II | 27 | Language | English | 6 | 6 | 0 | 4 |
| | III | 28 | Core VI | Inorganic Chemistry – II | 4 | 4 | 0 | 4 |
| | III | 29 | Major Practical IV | Inorganic Qualitative Analysis – II | 2 | 0 | 2 | 2 |
| | III | 30 | Allied Course II | Allied Chemistry – II | 4 | 4 | 0 | 3 |
| | III | 31 | Allied Practical II | Allied Chemistry Practical- II | 2 | 0 | 2 | 2 |
| | IV | 32 | Skilled Based Course II | Pharmaceutical chemistry/ Industrial Chemistry | 4 | 4 | 0 | 4 |
| IV | 33 | Non-Major Elective II | Dairy Chemistry / Chemistry in Everyday life | 2 | 2 | 0 | 2 | |
| IV | 34 | Common | Computers for Digital Era | 2 | 2 | 0 | 2 | |
| V | 35 | Extension Activity | NCC/NSS/YRC/YWF | - | - | - | 1 | |
| | | | SUBTOTAL | 30+2 | 26+2 | 4 | 28 | |
| III | 36 | Core VII | Organic Chemistry – II | 6 | 6 | 0 | 4 | |

| | | | | | | | | |
|----|-----|----|---------------------|--|--------------|-----------|------------|-----------|
| V | III | 37 | Core VIII | Physical Chemistry – II | 6 | 6 | 0 | 4 |
| | III | 38 | Major Elective I | Polymer Chemistry / Bio Chemistry | 4 | 4 | 0 | 4 |
| | III | 39 | Major Elective II | Modern Instrumental Analytical Techniques/ Applied Chemistry | 4 | 4 | 0 | 4 |
| | III | 40 | Major Practical V | Organic Analysis & Physical Constant Determination | 8 | 0 | 8 | 4 |
| | III | 41 | Major Practical VI | Gravimetric Estimation & Inorganic Preparation | | | | |
| | IV | 42 | Skill Based Common | Personality Development / Effective Communication / Youth Leadership | 2 | 2 | 0 | 2 |
| | | | | SUBTOTAL | 30 | 22 | 08 | 22 |
| VI | III | 43 | Core IX | Inorganic Chemistry – III | 5 | 5 | 0 | 4 |
| | III | 44 | Core X | Organic Chemistry - III | 5 | 5 | 0 | 4 |
| | III | 45 | Core XI | Physical Chemistry – III | 5 | 5 | 0 | 4 |
| | III | 46 | Major Elective III | Textile Chemistry / Nano Chemistry | 4 | 4 | 0 | 4 |
| | III | 47 | Major Practical VII | Physical Chemistry Experiments | 4 | 0 | 4 | 2 |
| | III | 48 | Major Project | Major Project | 7 | | 7 | 7 |
| | | | SUBTOTAL | 30 | 19 | 11 | 25 | |
| | | | GRANDTOTAL | 180+4 | 145+4 | 35 | 152 | |

Skill Based Course

One among the two given course will be selected.

Non-Major Elective

One among the two given course will be selected.

Major Elective

One among the two given course will be selected.

Major Project

Group Project –Maximum of five students per group

Extension Program for the Department

Apart from the curriculum, to enrich the skill development of the students following courses in

MANONMANIAM SUNDARANAR UNIVERSITY

TIRUNELVELI -12

COMMON SKILL BASED SUBJECT FOR U.G. PROGRAMME

Personality Development

UNIT -I

PERSONALITY - Definition – Determinants – Personality Traits –Theories of Personality – Importance of Personality Development. **SELF AWARENESS** – Meaning – Benefits of Self – Awareness – Developing Self – Awareness. **SWOT** – Meaning – Importance- Application – Components. **GOAL SETTING** Meaning- Importance – Effective goal setting – Principles of goal setting – Goal setting at the Right level.

UNIT – II

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UNIT – III

TEAM BUILDING – Meaning – Types of teams – Importance of Team building- Creating Effective Team. **LEADERSHIP** – Definition – Leadership style- Theories of leadership – Qualities of an Effect leader. **NEGOTIATION SKILLS** – Meaning – Principles of Negotiation – Types of Negotiation – The Negotiation Process – Common mistakes in Negotiation process. **CONFLICT MANAGEMENT** – Definition- Types of Conflict- Levels of Conflict – Conflict Resolution – Conflict management .

UNIT –IV

COMMUNICATION – Definition – Importance of communication – Process of communication - Communication Symbols – Communication network – Barriers in communication – Overcoming Communication Barriers. **TRANSACTIONAL ANALYSIS** – Meaning – EGO States – Types of Transactions – Johari Window- Life Positions. **EMOTIONAL INTELLIGENCE**- Meaning – Components of Emotional Intelligence- Significance of managing Emotional intelligence – How to develop Emotional Quotient. **STRESS MANAGEMENT** – Meaning – Sources of Stress – Symptoms of Stress – Consequences of Stress – Managing Stress

UNIT – V

SOCIAL GRACES – Meaning – Social Grace at Work – Acquiring Social Graces. **TABLE MANNERS** – Meaning – Table Etiquettes in Multicultural Environment- Do's and Don'ts of Table Etiquettes. **DRESS CODE** – Meaning- Dress Code for selected Occasions – Dress Code for an Interview. **GROUP DISCUSSION** – Meaning – Personality traits required for Group Discussion- Process of Group Discussion- Group Discussion Topics. **INTERVIEW** – Definition- Types of skills – Employer Expectations –Planning for the Interview – Interview Questions- Critical Interview Questions.

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2. Stephan P.Robbins, **Organisational Behaviour**, Tenth Edition, Prentice Hall of India Private Limited, New Delhi,2008
3. Jit S. Chandan, **Organisational Behaviour**, Third Edition, Vikas Publishing House Private Limited, 2008
4. Dr.K.K. Ramachandran and Dr.K.K. Karthick, **From Campus to Corporate**, Macmillan Publishers India Limited, New Delhi,2010.

MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVELI

UG COURSES – AFFILIATED COLLEGES

B.Sc . COMPUTER SCIENCE

Learning Outcome Based Curriculum

(With effect from the academic year 2021-2022 onwards)

Introduction

Outcome Based Education is incorporated into the curriculum based on the requirements of NAAC – UGC-Quality Mandate .To fulfill these requirements, the Program Educational Objectives(PEO's) ,Program Outcomes (POs) and Program Specific Outcomes(PSOs) and Course Outcomes(CO) were framed for all programs in alignment with the Vision and Mission of the respective departments and in-turn with the Vision and Mission and Educational Objectives of the University.

Vision Of the University

To provide quality education to reach the unreached

Mission Of the University

To conduct research ,teaching and outreach programs to improve conditions of human living

To create an academic environment that honours women and men of all races, caste, creed, cultures and an atmosphere

That values intellectual curiosity ,pursuit of knowledge ,academic freedom and integrity

To offer a wide variety of off campus educational and training programs, including the use of information technology, to individuals and groups

To develop partnership with industries and government so as to improve the quality of the workplace and to serve as

Catalyst for economic and cultural development

To provide quality /inclusive education ,especially for the rural and un-reached segments of economically downtrodden students including women, socially oppressed and differently abled.

Vision and Mission of Computer Science Department

Vision

Empower students to become independent life long learners with originality and high principles of character catering to the ever changing industrial demands and societal needs

Mission

To be the front runner in Computer Science and to foster the students into globally

| | | | | | | | | | |
|-----------------|--|----|-----------------------------|---|-----------|-----------|----------|-----------|-----------|
| | Subtotal (Excluding Computer for Digital Era) | | | | 30 | 15 | 1 | 14 | 20 |
| V | III | 29 | Core | Relational Database Management System | 4 | 4 | 0 | 0 | 4 |
| | III | 30 | Core | Data Communication and Computer Networks | 5 | 5 | 0 | 0 | 4 |
| | III | 31 | Core | PHP and mySQL | 5 | 4 | 1 | 0 | 4 |
| | III | 32 | Major Practical - V | PHP and mySQL Lab | 4 | 0 | 0 | 4 | 2 |
| | III | 33 | Major Practical - VI | Machine learning practicals | 5 | 0 | 0 | 5 | 2 |
| | III | 34 | Major Elective – I (Anyone) | 1. Mobile application Development 2. Introduction to Security in Computing 3. Cloud Computing | 5 | 5 | 0 | 0 | 4 |
| | III | 35 | Skill Based Common | Personality Development/ Effective Communication/ Youth Development | 2 | 2 | 0 | * | 2 |
| Subtotal | | | | | 30 | 20 | 1 | 9 | 22 |
| VI | III | 36 | Core | Operating System | 4 | 4 | 0 | 0 | 4 |
| | III | 37 | Core | Software Engineering and Testing | 4 | 4 | 0 | 0 | 4 |
| | III | 38 | Core | Computer Graphics and Visualization | 4 | 3 | 1 | 0 | 4 |
| | III | 39 | Core | Introduction to Digital Image Processing | 4 | 4 | 0 | 0 | 4 |
| | III | 40 | Major Practical - VII | Computer Graphics Lab | 4 | 0 | 0 | 4 | 2 |
| | III | 42 | Major Elective - II | 1. Internet of Things(IoT) 2. Information Technology Service Management (ITSM) 3. Neural Networks | 4 | 4 | 0 | 0 | 4 |
| | III | 41 | Project | Digital Image Processing using | 6 | 0 | 0 | 6 | 6 |

MANONMANIAM SUNDARANAR UNIVERSITY

TIRUNELVELI -12

COMMON SKILL BASED SUBJECT FOR U.G. PROGRAMME

Personality Development

UNIT -I

PERSONALITY - Definition – Determinants – Personality Traits –Theories of Personality – Importance of Personality Development. **SELF AWARENESS** – Meaning – Benefits of Self – Awareness – Developing Self – Awareness. **SWOT** – Meaning – Importance- Application – Components. **GOAL SETTING** Meaning- Importance – Effective goal setting – Principles of goal setting – Goal setting at the Right level.

UNIT – II

SELF MONITORING – Meaning – High self – monitor versus low self monitor – Advantages and Disadvantages self monitor- Self –monitoring and job performance. **PERCEPTION**- Definition- Factor influencing perception- Perception process –Errors in perception – Avoiding perceptual errors. **ATTITUDE** – Meaning- Formation of attitude – Types of attitude - Measurement of Attitudes – Barriers to attitude change – Methods to attitude change. **ASSERTIVENESS** - Meaning – Assertiveness in Communication – Assertiveness Techniques – Benefits of being Assertive – Improving Assertiveness.

UNIT – III

TEAM BUILDING – Meaning – Types of teams – Importance of Team building- Creating Effective Team. **LEADERSHIP** – Definition – Leadership style- Theories of leadership – Qualities of an Effect leader. **NEGOTIATION SKILLS** – Meaning – Principles of Negotiation – Types of Negotiation – The Negotiation Process – Common mistakes in Negotiation process. **CONFLICT MANAGEMENT** – Definition- Types of Conflict- Levels of Conflict – Conflict Resolution – Conflict management .

UNIT –IV

COMMUNICATION – Definition – Importance of communication – Process of communication - Communication Symbols – Communication network – Barriers in communication – Overcoming Communication Barriers. **TRANSACTIONAL ANALYSIS** – Meaning – EGO States – Types of Transactions – Johari Window- Life Positions. **EMOTIONAL INTELLIGENCE**- Meaning – Components of Emotional Intelligence- Significance of managing Emotional intelligence – How to develop Emotional Quotient. **STRESS MANAGEMENT** – Meaning – Sources of Stress – Symptoms of Stress – Consequences of Stress – Managing Stress

UNIT – V

SOCIAL GRACES – Meaning – Social Grace at Work – Acquiring Social Graces. **TABLE MANNERS** – Meaning – Table Etiquettes in Multicultural Environment- Do's and Don'ts of Table Etiquettes. **DRESS CODE** – Meaning- Dress Code for selected Occasions – Dress Code for an Interview. **GROUP DISCUSSION** – Meaning – Personality traits required for Group Discussion- Process of Group Discussion- Group Discussion Topics. **INTERVIEW** – Definition- Types of skills – Employer Expectations –Planning for the Interview – Interview Questions- Critical Interview Questions.

References :

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Common Course Structure for other UG Degree programmers in Science

B.Sc Zoology Major

(with effect from the academic year 2020-2021 onwards)

| | | | | | | | | | | | |
|-----|-----|------------------------|--|----------|-----------|-----------|----|----|-----|----|----|
| III | I | Language | Tamil/Other Language | 1 | 6 | 4 | 25 | 75 | 100 | 30 | 40 |
| | II | Language | English | 1 | 6 | 4 | 25 | 75 | 100 | 30 | 40 |
| | III | Core | Developmental Zoology | 1 | 4 | 4 | 25 | 75 | 100 | 30 | 40 |
| | III | Major Practical- III | Developmental Zoology | 1 | 2 | 1 | 25 | 75 | 100 | 30 | 40 |
| | III | II-Allied-I | Cell Biology, Genetics and Biotechnology / Industrial Fish and Fisheries-Biology of Fish | 1 | 4 | 3 | 25 | 75 | 100 | 30 | 40 |
| | III | II-Allied Practical- I | Cell Biology, Genetics and Biotechnology / Industrial Fish and Fisheries-Biology of Fish | 1 | 2 | 1 | 50 | 50 | 100 | 20 | 40 |
| | III | Skill Based-Core | (Any one) 1. Home Aquarium 2. Nutrition and Dietetics | 1 | 4 | 4 | 25 | 75 | 100 | 30 | 40 |
| | IV | Non- Major Elective | (Any one) 1. Bee Keeping 2. Clinical Biology | 1 | 2 | 2 | 25 | 75 | 100 | 30 | 40 |
| | IV | Common | YOGA* | | 2 | 2 | 25 | 75 | 100 | 30 | 40 |
| | | | Sub total | 8 | 30 | 25 | | | | | |
| IV | I | Language | Tamil/Other Language | 1 | 6 | 4 | 25 | 75 | 100 | 30 | 40 |
| | II | Language | English | 1 | 6 | 4 | 25 | 75 | 100 | 30 | 40 |
| | III | Core | Cell and Molecular Biology | 1 | 4 | 4 | 25 | 75 | 100 | 30 | 40 |
| | III | Major Practical- IV | Cell and Molecular Biology | 1 | 2 | 1 | 50 | 50 | 100 | 20 | 40 |
| | III | II-Allied-II | Developmental Zoology, Ecology, Animal Physiology and Evolution / Industrial | 1 | 4 | 3 | 25 | 75 | 100 | 30 | 40 |

| | | | | | | | | | | | |
|---|-----|----------------------------|--|----------|-----------|-----------|----|----|-----|----|----|
| | | | Fish and Fisheries- Capture Fisheries | | | | | | | | |
| | III | II-Allied Practical- II | Developmental Zoology, Ecology, Animal Physiology and Evolution / Industrial Fish and Fisheries- Capture Fisheries | 1 | 2 | 1 | 50 | 50 | 100 | 20 | 40 |
| | III | Skill Based -Core | (Any one) 1.Biophysics and Bioinstrumentation 2.Vermitechnology | 1 | 4 | 4 | 25 | 75 | 100 | 30 | 40 |
| | IV | Non- Major Elective | (Any one) 1. Public Health and Hygiene 2.Community and Social Preventive Medicine. | 1 | 2 | 2 | 25 | 75 | 100 | 30 | 40 |
| | V | Extension Activity | NCC/NSS/YRC/YW/P E | | | 1 | 25 | 75 | 100 | 30 | 40 |
| | IV | Common | Computer for Digital Era* | | | 2 | 25 | 75 | 100 | 30 | 40 |
| | | | Sub total | 8 | 30 | 26 | | | | | |
| V | III | Core | Ecology and Toxicology | 1 | 5 | 4 | 25 | 75 | 100 | 30 | 40 |
| | III | Core | Genetics | 1 | 5 | 4 | 25 | 75 | 100 | 30 | 40 |
| | III | Core | Animal Physiology and Biochemistry | 1 | 5 | 4 | 25 | 75 | 100 | 30 | 40 |
| | III | Core | Immunology and Microbiology | 1 | 5 | 4 | 25 | 75 | 100 | 30 | 40 |
| | III | Major Practical- V | Ecology and Toxicology and Genetics | 1 | 3 | 4 | 50 | 50 | 100 | 20 | 40 |
| | III | Major Practical- VI | Animal Physiology and Biochemistry | 1 | 3 | | 50 | 50 | 100 | 20 | 40 |
| | III | Major Practical- VII | Immunology and Microbiology | 1 | 2 | | 50 | 50 | 100 | 20 | 40 |
| | IV | Skill Based Common | Personality Development/ Effective Communication/ Youth | 1 | 2 | 2 | 25 | 75 | 100 | 30 | 40 |

Common Course Structure for other UG Degree programmers in Science

B.Sc Zoology Major

(with effect from the academic year 2020-2021 onwards)

| | | | | | | | | | | | |
|----|-----|-----------------------------|--|----------|-----------|-----------|----|----|-----|----|----|
| | | | Leadership | | | | | | | | |
| | | | Sub total | 8 | 30 | 22 | | | | | |
| VI | III | Core | Evolution | 1 | 5 | 4 | 25 | 75 | 100 | 30 | 40 |
| | III | Core | Animal Biotechnology | 1 | 5 | 4 | 25 | 75 | 100 | 30 | 40 |
| | III | Core | Biostatistics, Computer Applications & Bioinformatics | 1 | 5 | 4 | 25 | 75 | 100 | 30 | 40 |
| | III | Major Elective | Group A (Any one) 1. Sericulture 2. Economic Entomology 3. Dairy farming | 1 | 5 | 4 | 25 | 75 | 100 | 30 | 40 |
| | III | Major Elective | Group B (Any one) 1. Apiculture 2. Food and Food Processing Technology 3. Poultry Science | 1 | 4 | 4 | 25 | 75 | 100 | 30 | 40 |
| | III | Major Practical- VIII | Evolution and Animal Biotechnology | 1 | 2 | 4 | 50 | 50 | 100 | 20 | 40 |
| | III | Major Practical- IX | Biostatistics, Computer Applications & Bioinformatics | 1 | 2 | | 50 | 50 | 100 | 20 | 40 |
| | III | Major Elective Practical- X | Corresponding Major Electives | 1 | 2 | | 50 | 50 | 100 | 20 | 40 |
| | | | Sub total | 8 | 30 | 24 | | | | | |

MANONMANIAM SUNDARANAR UNIVERSITY

TIRUNELVELI -12

COMMON SKILL BASED SUBJECT FOR U.G. PROGRAMME

Personality Development

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MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVELI
UG COURSES – AFFILIATED COLLEGES
B.Sc. PHYSICAL EDUCATION
(Choice Based Credit System)
(with effect from the academic year 2021-22 onwards)

Vision of the University

To provide quality education to reach the un-reached

Mission of the University

- To conduct research, teaching and outreach programmes to improve conditions of human living.
- To create an academic environment that honours women and men of all races, caste, creed, cultures and an atmosphere that values Intellectual curiosity, pursuit of knowledge, academic freedom and integrity.
- To offer a wide variety of off-campus educational and training programs, including the use of information technology, to individuals and groups.
- To develop partnership with industries and government so as to improve the quality of the workplace and to serve as catalyst for economic and cultural development.
- To provide quality / inclusive education, especially for the rural and un-reached segments of economically downtrodden students including women, socially oppressed and differently abled.

Vision of the Department


Creating a sporty and fit nation through Physical Education and Sports

Mission of the Department

- To conduct research, teaching and outreach programmes to improve health conditions and sports performance of human being.
- To collaborate with stakeholders to improve the standard of living and to serve as catalyst for fitness and wellness.
- To provide quality / inclusive physical education.
- To provide opportunities to develop the knowledge, skills, and personalities necessary to meet their personal and professional goals.
- To move towards a more physically active lifestyle by changing behavioural patterns.
- To create the sports culture at the grass-root level.

Preamble

Physical Education is a form of one of the most effective means of education imparted through physical exercises, recreational activities and sports. It is an integral part of education. Which by mere participation in it gives the outcomes. These outcomes are both instant as well as have strong carry over values in the life. The children as well as the adults and the old enjoy physical activities & sports and gets benefit in the form of stronger muscles and bones, increased energy, coordination level and most importantly the decreased risk of developing chronic diseases.


Department of Physical Education
Nanjil Catholic College of Arts & Science
Kaliyakkavilai - 629 153, Tamil Nadu.

The UNESCO in its General Conference in 1978 was convinced that, everyone should be free to develop and preserve his or her physical, intellectual and moral powers. Physical Education, Health Education and Sports should consequently be assured and guaranteed for all human beings. Physical Education is now a regular feature in the primary and secondary schools as well as it is gaining popularity in the higher education. The course opted for this is elective as well as the core at the college and the university level in India.

The graduate level course in Physical Education, Health Education and Sports contains subjects varying from foundation of Physical Education to Anatomy, Physiology, Kinesiology, Test & Measurement, Nutrition, Rehabilitation, Psychology, Sports Training, Sports Biomechanics, Methods of Teachings etc. which are aimed to give thorough knowledge and skills to the students. Students perusing physical education courses are fit to join the jobs as physical trainers, coaches, game officials, referees, umpires, curators, gym trainers, life guards, personal trainers etc. During their course of education the students also develops the expertise to establish their own business as entrepreneurs in the field of sports, fitness, recreation, adventure sports, camping, event management etc.

Learning Outcomes-Based Curriculum Framework

The learning outcomes-based curriculum framework for a B.Sc degree in Physical Education is intended to provide a broad framework within which Physical Education programme responds to the needs of students and requirements. The framework is expected to assist in the maintenance of standard and uniformity of Physical Education degrees across the country. This will also help in periodic programme review within a broad framework of agreed expected graduate attributes, qualification descriptors, programme learning outcomes and course-level learning outcomes. The framework does seek to bring about uniformity in syllabi for a programme of study in Physical Education, teaching-learning process as well as learning assessment procedures. However, the framework is also intended to allow flexibility and innovation in programme design.

Nature and extent of the B.Sc. degree programme

Physical Education is normally referred to as the science that aims to develop all-inclusive aspects of human personality through physical and sports activities. Physical education is a multidisciplinary subject that cannot be studied in seclusion under the scope of one or two subjects. The scope of Physical Education as a subject is very broad. It caters to the need for developing capability of the students on physical, mental and social aspects. Physical education also aims to develop activity as an alternate and prophylactic medicine. The key areas of study within the Physical Education are *'Exercise Physiology, Sports Psychology, Sports Sociology, Sports Management, Sports Journalism, Kinesiology- Biomechanics, Sports Training, Sports Medicine, Kinanthropometry* etc.

Degree program in Physical Education covers topics that overlap with the areas outlined above and that address the interfaces of Physical Education with other subjects such as Physiology, Bio-Chemistry, Physics, Physiotherapy, Psychology, Management, Sociology along with training pedagogy employed for enhancing the functional status of individuals with varied needs. As a part of the effort, to enhance the employability of graduates of Physical Education, programs include learning experiences that offer opportunities in various spheres of human existence.

Program Specific Outcomes (PSOs)

This would lead the students to understand historical concept of physical education and relationship between Philosophy, Education and Physical Education. The student would further understand the theoretical implications of philosophies of physical education with modern development and social aspects of Physical Education.


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1. The curriculum would enable the pass out to select the inherited talented children for various sports activities.
2. The pass out shall be able to orient children in schools with the fundamental skills of selected sports as per their inherited potential.
3. The pass out shall be able to devise training program for athletes engaged in different sports activities
4. The curriculum shall enable them to officiate, supervise various sports tournaments and orient them in organizing sports events at all levels.
- A. The curriculum would enable the pass out students to be entrepreneur (to start their own fitness centre, gym, spa etc) and device appropriate fitness program for different genders and age groups of people.
5. The curriculum would enable the pass out to devise training program for physically challenged peoples.

Eligibility for Admission to the programme B.Sc Physical Education, Health Education and Sports (3 Years)

- A. Applicants should have passed the +2 examination of the Government of Tamil Nadu or any other equivalent examination recognized by the Government of Tam I Nadu or approved by the concerned University.
- B. School representation in any game or sports is preferred for the applicants. The procedure followed for the selection of B.P.Ed degree should be followed for B Sc., Physical Education, Health Education and Sports Degree candidates.
- C. The candidates should not have completed 21 years of age as on 1st July. However, relaxation of 3 years may be given for SC/ST.

Admission shall be made on the basis of ranking for a total of 150 marks as detailed below

| | |
|--------------------------------------|----------|
| 1. Qualifying Examination | 25 marks |
| 2. Participation in Sports and Games | 25 marks |
| 3. Games skill test | 50 marks |
| 4. Track and Field Skill test | 50 marks |

Games and Sports participation:


(Maximum Marks:25)

| | |
|--|----------|
| 1. Representation for the Country/National placing | 25 marks |
| 2. State Representation (Form II/IV in games/Sports) | 20 marks |
| 3. Inter Division (Participation) BDS/RDS Inter District (Participation)/CBSC CLUSTER | 15 marks |
| 4. District (BDS/RDS) | 10 marks |
| 5. Inter-School Representation | 05 marks |

All other quota system and rule of reservation of the Government of Tamil Nadu shall be followed.

Course-level learning outcomes

The undergraduate degree program of Physical education will be of three years with six semesters. The Course-level learning outcomes for each course within B.Sc degree programme in Physical Education are given below with content matter (detail syllabus of five units) to be taught in each unit and semester for three years


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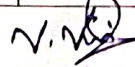
| | | | | |
|--------------|-----------------------|-------------------------------------|-----------|-----------|
| Part III | Core Practical IV | Teaching Practice | 4 | 2 |
| Part III | Non Major Elective II | Fitness and Wellness | 2 | 2 |
| Part III | Skill Based Core II | Sports Psychology and Sociology | 4 | 4 |
| Part III | Allied IV | Sports Biomechanics and Kinesiology | 3 | 3 |
| Part IV | Common | Computers for Digital era | 2 | 2 |
| Part V | Extension Activity | NSS/NCC/YRC/YWF/PE | 0 | 1 |
| Total | | | 32 | 26 |

SEMESTER V

| PART | Core/Allied | Title | Hrs | Credits |
|--------------|--------------------|--|-----------|-----------|
| Part III | Core VII | Exercise Physiology | 5 | 4 |
| | Core VIII | Test, Measurement and Evaluation in Physical Education and Sports | 5 | 4 |
| Part III | Core IX | Theories of Track and Field | 5 | 4 |
| Part III | Core Elective I | a. Principles of Motor Development | 5 | 4 |
| | | b. Adapted Physical Education | | |
| Part III | Core Practical V | Track and Field Events | 4 | 2 |
| Part III | Core Practical VI | Measurement and Evaluation in Human Performance | 4 | 2 |
| Part IV | Skill Based Common | Personality Development / Effective Communication / Youth Leadership | 2 | 2 |
| Total | | | 30 | 22 |

SEMESTER VI

| PART | Core/Allied | Title | Hrs | Credits |
|--------------|--------------------|---|-----------|-----------|
| Part III | Core X | Athletic Care, Sports Injuries and Rehabilitation | 5 | 4 |
| Part III | Core XI | Theory of Games – III (Basketball, Football, Hockey, Cricket, Volleyball) | 5 | 4 |
| Part III | Core XII | Elementary Statistics in Physical Education | 5 | 4 |
| Part III | Core Elective II | a. Sports Nutrition | 5 | 4 |
| | | b. Sports Journalism | | |
| Part III | Project & Viva | Project & Viva - State/National Level Tournament (Or) Study Tour | 5 | 2 |
| Part III | Core Practical VII | Games of Specialization (Basketball, Football, Hockey, Cricket, Volleyball) | 5 | 2 |
| Total | | | 30 | 20 |


Head

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| Sem. (1) | Pt. I/II/ III/ IV/V (2) | Sub No. (3) | Subject Status (4) | Subject Title (5) | Contact Hrs/ Week (6) | C Credits (7) |
|-------------|-------------------------------------|-------------------|--------------------------------|---|--------------------------------|---------------------|
| V | III | 30 | Core -13 | Corporate Accounting I | 5 | 4 |
| | III | 31 | Core -14 | Cost Accounting | 4 | 4 |
| | III | 32 | Core -15 | Business Law | 5 | 4 |
| | III | 33 | Core -16 | Research Methodology | 4 | 4 |
| | III | 34 | Major Elective I (Any one) | 1. Income Tax Law & Practice I 2. Application of Tally in Accounting 3. Logistic Management | 4 | 4 |
| | IV | 35 | Skill Based – III Common | Personality Development / Effective Communication / Youth Leadership | 2 | 2 |
| | III | 36 | | Mini Project | 6 | 2 |
| | | | | Sub total | 30 | 25 |

| Sem. (1) | Pt. I/II/ III/ IV/V (2) | Sub. No. (3) | Subject Status (4) | Subject Title (5) | Contact Hrs/ Week (6) | C Credits (7) |
|-------------|----------------------------------|--------------------|------------------------------------|--|--------------------------------|---------------------|
| VI | III | 37 | Core -17 | Corporate Accounting II | 5 | 4 |
| | III | 38 | Core -18 | Management Accounting | 4 | 4 |
| | III | 39 | Core -19 | Industrial Law | 5 | 4 |
| | III | 40 | Core -20 | Auditing | 4 | 4 |
| | III | 41 | Major Elective II (Any one) | 1. Income Tax Law & Practice II 2. Retail Management 3. Values & Ethics for Business | 4 | 4 |
| | III | 42 | | Major Project | 8 | 4 |
| | | | | Sub total | 30 | 24 |

- For problem papers 40% marks for theory and 60% marks for problems.
- Proportion of marks between internal evaluation and external evaluation for subjects - 25:75.
- Internal – 20 marks for theory and 5 marks for assignment.
- Total Credits – 144 (excluding the credit for yoga and computer for digital era)

MANONMANIAM SUNDARANAR UNIVERSITY

TIRUNELVELI -12

COMMON SKILL BASED SUBJECT FOR U.G. PROGRAMME

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4. Dr.K.K. Ramachandran and Dr.K.K. Karthick, **From Campus to Corporate**, Macmillan Publishers India Limited, New Delhi,2010.

**MANONMANIAM SUNDARANAR UNIVERSITY,
TIRUNELVELI - 627012.**

**CHOICE BASED CREDIT SYSTEM BACHELOR OF
BUSINESS ADMINISTRATION**

(With effect from the Academic Year 2020-2021 onwards)

**Programme Structure
(III to VI Semester)**

| Sem (1) | Part I/ II/III/ IV/V (2) | Subject Number (3) | Subject Status (4) | Subject Title (5) | L | T | P | C | Maximum marks | | | | |
|------------------|--------------------------------------|--------------------------|-----------------------------|---|---|---|---|-----------|------------------|----------|------------------------|--|--|
| | | | | | | | | | Internal | External | Total | | |
| I | I | 1 | Language | Tamil / Other Language | | | | 4 | 25 | 75 | 100 | | |
| | I | 2 | Language | Communicative English-1 | | | | 4 | 25 | 75 | 100 | | |
| | III | 3 | Core-1 | Professional English for Commerce and Management-1 | 3 | 0 | 2 | 4 | 25 | 75 | 100 | | |
| | III | 4 | Core -2 | Principles of Management | 3 | 2 | 0 | 4 | 25 | 75 | 100 | | |
| | III | 5 | Allied-1 | Business Statistics | 4 | 2 | 0 | 4 | 25 | 75 | 100 | | |
| | IV | 6 | Common | Environmental studies | 2 | 0 | 0 | 2 | 25 | 75 | 100 | | |
| Sub Total | | | | | | | | 22 | | | | | |
| II | I | 7 | Language | Tamil / Other Language | | | | 4 | 25 | 75 | 100 | | |
| | I | 8 | Language | Communicative English-1 | | | | 4 | 25 | 75 | 100 | | |
| | III | 9 | Core-3 | Professional English for Commerce and Management-1 | 3 | 0 | 2 | 4 | 25 | 75 | 100 | | |
| | III | 10 | Core -4 | Managerial Economics | 3 | 2 | 0 | 4 | 25 | 75 | 100 | | |
| | III | 11 | Allied-2 | Business Mathematics | 4 | 2 | 0 | 4 | 25 | 75 | 100 | | |
| | IV | 12 | Common | Value based Education/ Mana vazhar kalai | 2 | 0 | 0 | 2 | 25 | 75 | 100 | | |
| Sub Total | | | | | | | | 22 | | | | | |
| III | III | 13 | Core5 | Financial Accounting | 3 | 2 | 0 | 4 | 25 | 75 | 100 | | |
| | III | 14 | Core6 | Organizational Behaviour | 3 | 2 | 0 | 4 | 25 | 75 | 100 | | |
| | III | 15 | Core7 | Business Environment | 4 | 0 | 0 | 4 | 25 | 75 | 100 | | |
| | III | 16 | Core 8 | Banking and Insurance | 4 | 0 | 0 | 4 | 25 | 75 | 100 | | |
| | III | 17 | Allied3 | Business Law-I | 2 | 2 | 0 | 3 | 25 | 75 | 100 | | |
| | III | 18 | Skill Based Practical -I | Computer Applications in Business I(Practical Subject) | 0 | 0 | 6 | 3 | 50 | 50 | 100 | | |
| | IV | 19 | Non Major Elective-I | Advertising | 2 | 0 | 0 | 2 | 25 | 75 | 100 | | |
| | IV | 20 | Common | Yoga | 2 | 0 | 0 | 2 | 50 | 50 | 100 | | |
| Sub Total | | | | | | | | 20 | 6 | 6 | 24+ 2 | | |
| IV | III | 21 | Core9 | Cost Accounting | 3 | 2 | 0 | 4 | 25 | 75 | 100 | | |
| | III | 22 | Core10 | Marketing Management | 4 | 0 | 0 | 4 | 25 | 75 | 100 | | |
| | III | 23 | Core11 | Human Resource Management | 4 | 0 | 0 | 4 | 25 | 75 | 100 | | |

| | | | | | | | | | | | |
|--|-----|----|---------------------------|--|-----------|----------|----------|-----------|----|----|-----|
| | | 24 | Core 12 | Production and Operations Management | 3 | 2 | 0 | 4 | 25 | 75 | 100 |
| | III | 25 | Allied4 | Corporate Law | 2 | 2 | 0 | 3 | 25 | 75 | 100 |
| | IV | 26 | Skill Based Practical -II | Computer Applications in Business II (Practical Subject) | 0 | 0 | 6 | 3 | 50 | 50 | 100 |
| | IV | 27 | Non Major Elective-II | Consumer Behaviour | 2 | 0 | 0 | 2 | 25 | 75 | 100 |
| | IV | 28 | Common | Computer for Digital Era | 2 | 0 | 0 | 2 | 50 | 50 | 100 |
| | V | 29 | Extension Activity | NSS/NCC/PHYSICAL EDUCATION/ YRC | - | - | - | 1 | | | |
| | | | | Sub Total | 20 | 6 | 6 | 25 | | | |
| | | | | | | | | +2 | | | |

| | | | | | | | | | | | |
|-----------|-----|----|-----------------------------------|--|-----------|----------|-----------|-----------|----|----|-----|
| V | III | 30 | Core13 | Management Accounting | 3 | 2 | 0 | 4 | 25 | 75 | 100 |
| | III | 31 | Core14 | Research Methodology | 3 | 0 | 2 | 4 | 25 | 75 | 100 |
| | III | 32 | Core15 | Digital Business Management | 4 | 0 | 0 | 4 | 25 | 75 | 100 |
| | III | 33 | Core16 | Financial Services | 4 | 0 | 0 | 4 | 25 | 75 | 100 |
| | III | 34 | Major Elective I (CHOOSE ANY ONE) | Retail Management <i>Or</i> Services Marketing (CHOOSE ANY ONE) | 4 | 0 | 0 | 4 | 25 | 75 | 100 |
| | IV | 35 | Skill Based Practical- III | Effective Employability Skills- I (Practical Subject) | 0 | 0 | 4 | 2 | 50 | 50 | 100 |
| | III | 36 | Skill Based Subject Common | Personality Development | 2 | 0 | 0 | 2 | 25 | 75 | 100 |
| | III | 37 | | Field Study | 0 | 0 | 2 | 2 | 50 | 50 | 100 |
| | | | | SubTotal | 20 | 2 | 8 | 26 | | | |
| VI | III | 38 | Core17 | Financial Management | 3 | 2 | 0 | 4 | 25 | 75 | 100 |
| | III | 39 | Core18 | Strategic Management | 3 | 2 | 0 | 4 | 25 | 75 | 100 |
| | III | 40 | Core 19 | Entrepreneurship Development | 4 | 0 | 0 | 4 | 25 | 75 | 100 |
| | III | 41 | Major Elective-II (CHOOSE ANYONE) | Training and Development <i>Or</i> Industrial Relations and Labour laws (CHOOSE ANY ONE) | 4 | 0 | 0 | 4 | 25 | 75 | 100 |
| | IV | 42 | Skill Based Practical -IV | Effective Employability Skills- II (Practical Subject) | 0 | 0 | 4 | 2 | 50 | 50 | 100 |
| | IV | 43 | | Major Project | 0 | 2 | 6 | 4 | 50 | 50 | 100 |
| | | | | SubTotal | 14 | 6 | 10 | 22 | | | |

MANONMANIAM SUNDARANAR UNIVERSITY

TIRUNELVELI -12

COMMON SKILL BASED SUBJECT FOR U.G. PROGRAMME

Personality Development

UNIT -I

PERSONALITY - Definition – Determinants – Personality Traits –Theories of Personality – Importance of Personality Development. **SELF AWARENESS** – Meaning – Benefits of Self – Awareness – Developing Self – Awareness. **SWOT** – Meaning – Importance- Application – Components. **GOAL SETTING** Meaning- Importance – Effective goal setting – Principles of goal setting – Goal setting at the Right level.

UNIT – II

SELF MONITORING – Meaning – High self – monitor versus low self monitor – Advantages and Disadvantages self monitor- Self –monitoring and job performance. **PERCEPTION**- Definition- Factor influencing perception- Perception process –Errors in perception – Avoiding perceptual errors. **ATTITUDE** – Meaning- Formation of attitude – Types of attitude - Measurement of Attitudes – Barriers to attitude change – Methods to attitude change. **ASSERTIVENESS** - Meaning – Assertiveness in Communication – Assertiveness Techniques – Benefits of being Assertive – Improving Assertiveness.

UNIT – III

TEAM BUILDING – Meaning – Types of teams – Importance of Team building- Creating Effective Team. **LEADERSHIP** – Definition – Leadership style- Theories of leadership – Qualities of an Effect leader. **NEGOTIATION SKILLS** – Meaning – Principles of Negotiation – Types of Negotiation – The Negotiation Process – Common mistakes in Negotiation process. **CONFLICT MANAGEMENT** – Definition- Types of Conflict- Levels of Conflict – Conflict Resolution – Conflict management .

UNIT –IV

COMMUNICATION – Definition – Importance of communication – Process of communication - Communication Symbols – Communication network – Barriers in communication – Overcoming Communication Barriers. **TRANSACTIONAL ANALYSIS** – Meaning – EGO States – Types of Transactions – Johari Window- Life Positions. **EMOTIONAL INTELLIGENCE**- Meaning – Components of Emotional Intelligence- Significance of managing Emotional intelligence – How to develop Emotional Quotient. **STRESS MANAGEMENT** – Meaning – Sources of Stress – Symptoms of Stress – Consequences of Stress – Managing Stress

UNIT – V

SOCIAL GRACES – Meaning – Social Grace at Work – Acquiring Social Graces. **TABLE MANNERS** – Meaning – Table Etiquettes in Multicultural Environment- Do's and Don'ts of Table Etiquettes. **DRESS CODE** – Meaning- Dress Code for selected Occasions – Dress Code for an Interview. **GROUP DISCUSSION** – Meaning – Personality traits required for Group Discussion- Process of Group Discussion- Group Discussion Topics. **INTERVIEW** – Definition- Types of skills – Employer Expectations –Planning for the Interview – Interview Questions- Critical Interview Questions.

References :

1. Dr.S. Narayana Rajan, Dr. B. Rajasekaran, G. Venkadasalaphi, V. Vijuresh Nayaham and Herald M.Dhas, **Personality Development**, Publication Division, Manonmaniam Sundaranar University, Tirunelveli
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