

# UG ML Syllabus w.e.f. 2019-20 SEMESTER – III Department Specified Skill Enhancement Course(SEC) - 2

# Paper 1 - Creative Writing

# Unit 1 - Story Writing

Purpose (overt / covert plan), Choosing a topic, Devising a plot, Designing Characters, Select a setting. List of Events, Arranging the events, Creating conflict, Resolving conflict, Coherence, Cohesion, Editing, Publishing

# Unit 2 - Poetry Writing

Purpose, Choosing a topic, Deciding on the form, End Rhyme, Comparison, Images, Symbols, Tone of the poem, Sensory experience, Endings, Acrostic Poetry, Concrete Poetry, Haiku

# Suggested reading:

Lamott. Anne, Bird by Bird. Penguin Random House, 2019. Print.
Lockward. Diane, The Procticing Poet. Terrapin Books, 2018. Print.
Oliver. Mary, A Poetry Handbook. Ecco, 1994. Print.
Addonizio, Kim, and DorianneLaux. The Poet's Companion. Norton & Co, 1997. Print.

# UG ML Syllabus w.e.f. 2019-20 SEMESTER - IV Department Specified Skill Enhancement Course(SEC) - 4

# Paper 1 - English for Internet

## Unit 1 - Content Writing

Purpose of Writing, Choosing the Visual, Catchy Headline, Sensory Description, Bout of Narration, Audience Sentiment, Informal Tone, Focus Area, Avoiding Jargon, Adding Opinion, Ending

# Unit 2 - Creating a Post

Precision, Clarity, Copciseness, Brevity, Relevance, Adaptability, One word substitutes, Keywords, Creating Hash tags, Blogging, Tweeting, Campaigning across Social Media, Short video narrative.

# Suggested Reading:

Ray, Bradbury. Zen in the Art of Writing. Harper Voyager, 2015. Print, 1
Miller, Donald. Building a Story Brand. Harper Collins Leadership, 2017. Print.
Handley. Ann, Everybody Writes. Wiley, 2014. Print.
Schaefer, Mark W. The Content Code. Grow Publishing, 2015. Print
Lezzi, Teressa. The Idea Writers: Copywriting in a New Media and Marketing Era. Palgrave Macmillan, 2010. Print.

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#### COURSE NO. SEC 2

# (a) BASIC QUALITY MANAGEMENT

#### COURSE OBJECTIVES

- This course is aimed at orienting the students towards the importance of quality as a management tool.
- 2. Towards understanding the principles and practices of total quality management
- 3. Introducing the various tools and techniques used in the measurement of quality
- 4. Understanding the importance of six sigma as a quality tool
- 5. Sensitizing the participants to the importance of quality in services sector

#### COURSE OUTCOMES

- 1. Students get to know about the evolution and importance of quality management.
- Helps the students get aware of various tools used for quality management in the organizations.
- Students will be able to know about the quantitative and qualitative techniques used to measure the effectiveness of quality management tools.
- 4. Students will be able to use the six sigma applications for quality check.
- Students can understand the use of total quality management in various service organizations.

UNIT – I: INTRODUCTION: The concept of Quality. Quality Dimensions. Product and Service Quality. Inspection, Statistical Quality Control, Quality Assurance and Total Quality Management. Conventional Quality Management versus Total Quality Management. Evolution of TQM. Historical perspectives of TQM – Deming, Juran, Crosby and Taguchi's Contributions. Customer and supplier focus in TQM. Benefits and Costs of TQM.

UNIT – II: TOOLS AND TECHNIQUES OF TQM: Statistical Tools - Check Sheets, Histograms, Scatter Diagrams, Pareto's Chart, Regression Analysis & Control Charts. Cause and Effect Diagrams, The Five Why's, Five S's, Kaizen, JIT, Quality Circles, Gantt Chart and Balanced Score Card. Dimensions of Service Quality. An overview of TQM in Service Organisations.

# SUGGESTED BOOKS

- Sunil Sharma, "Total Engineering Quality Management", Macmillan India Ltd.
- Ron Basu, "Implementing Quality: A Practical Guide to Tools and Techniques", Thompson.
- 3. Kanishka Bedi, "Quality Management", Oxford University Press.
- Mukherjee, PN, "Total Quality Management", PHI.
- 5. R. P. Mohanty & R. R. Lakhe, "TQM in the Service Sector", Jaico Books.

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## COURSE NO. SEC - 4

# (a) STARTUP OPPORTUNITY AND FEASIBILITY

#### COURSE OBJECTIVES:

- It helps the students to acquaint themselves with the special challenges of starting new ventures and introducing new product and service ideas.
- To learn about identifying business opportunities
- To lean about market and technical feasibility for business

# COURSE OUTCOMES:

- To identify opportunities for starting business
- To be able to write a business plan
- To take decision regarding form of business ownership
- To conduct feasibility study

#### Unit I:

Windows of opportunity: Environmental change, Technology- new products and pioneers, Market evolution- niches and opportunities, Industrial development- linkages and opportunities, Types of entrepreneurs.

Understanding opportunity: Criteria for an opportunity, opportunity evaluation, cost of evaluation, execution trumps opportunity; risk, uncertainty and ambiguity; approaches to opportunity evaluation

#### Unit II:

Building the Business Plan: Beginning Considerations: Building a competitive advantage. The strategic management processes. Conducting a feasibility analysis. Forms of Business ownership. Franchising and entrepreneurship. Buying an existing business. Marketing and financial considerations: Building a powerful marketing plan, E-commerce and Entrepreneur, Pricing strategies, Choosing the right location and layout

# SUGGESTED BOOKS

- 1. Greg Clydesdale Entrepreneurial Opportunity: The Right Place at the Right Time
- Wise S and Feld B Startup Opportunities: Know When to Quit Your Day Job
- Timmons, J.A. and Spinelli, S.: New Venture Creation

   Entrepreneurship for the 21st century.

McGraw Hill Reference Books

- 4. Start Up Management- Nuzhath Khatoon-Professional Books Publisher
- 5. Galloway S Post Corona: From Crisis to Opportunity
- Robert P Singh Entrepreneurial Opportunity Recognition Through Social Networks
- Vasanth Desai, "Dynamics of Entrepreneurial Development and Management", HPH, Millenium
- 8. S.S. Khanka, "Entrepreneurial Development", S. Chand & Co. Ltd.
- Poornima. M Charantimath, "Entrepreneurial Development and Small Business Enterprises" Pearson Education.

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# B.A. (ECONOMICS) SYLLABUS Semester - IV SEC-4 ENTREPRENEURSHIP AND DEVELOPMENT

# Module-I Basic Issues of Entrepreneurship and Economic Development

Basic features of Entrepreneurship, Entrepreneurship and its linkages with economic development, Growth of entrepreneurship in India- Role of entrepreneurship in Economic Development and problems of rural entrepreneurship in India.

# Module-II Financial Resources for new ventures of an entrepreneur:

Source of finance, capital structure, Institutional support to enterprises- National Small Industries Board- State Small Industries Development Corporation- District Industrial estates- Indian Experience, Stages of growth, types of growth strategies of expansion, Diversification, joint venture, merger and subcontracting.

#### References:

- 1. S.S. Khanka Entrepreneurial Development, S Chand & Company Ltd.
- 2. David . H. Holt- Entrepreneurship New Venture Criterion
- Poornima M. Entrepreneurship Development and Small Business Enterprises (2<sup>nd</sup> Edition Pearson)
- 4. Datt and Sundaram (Revised by A. Mahjan), Indian Economy, 70th Edition, S Chand.

Prof. B.Sudhakar Reddy Chairman Board of Studies

# TELANGANA STATE B.A. (HISTORY) SYLLABUS

#### Semester - III

Historical and Cultural Tourism (SEC - Skill Enhancement Course – I) (2019-2020)

The main objective of this course is to make student understand the relevance of Tourism as history and its relationship with culture. This course not only deals with the various aspects of tourism industry but also deals with the impact of tourism. This course also brings out the growing trends in tourism and the demand it is generating in the present times.

Module-I: Tourism - Concept and Meaning - Nature - Scope - Tourism as an Industry - Socio-Economic Impact of Tourism - History of Tourism Development in India -Promotional Strategies of Tourism - Tools of Publicity, Role of Films, Television, Press, Poster-display, Brochures, Role of Guides - Historical Tourism - Monuments, Religious and Secular - Historical Sites - Historical Events - Impact of Tourism Development on Protection and Conservation of Historical Monuments and Sites and Vice-Versa - Socio-Cultural Tourism: Fairs and Festivals of India - Performing Arts (Dance, Drama and Music) - Museums, Art - Galleries, Yoga and Health Centers -Indian Cuisine.

Module-II: Eco-Tourism - Beaches, Hill-Resorts, Surf-Riding, Ballooning, Rafting, Gliding - Wild-life Sanctuaries - National Parks, Safaris, Mountaineering –Trekking – Skiing - Sports Tourism - Tourism in Telangana – Tourist Places - Tourism Handicrafts: Textiles – Metal Work, Stone and Wood Carvings, Furniture, Jewellery, Toys, Musical Instruments – Terracotta - Display and Sale of Handicrafts - Shops at Heritage Centers – Organizing Exhibitions – Duty Free Shops.

#### Recommended Books:

Dallen, J. Timothy, Cultural Heritage and Tourism: An Introduction (Aspects of Tourism Texts), Channel View Publications, 2011.

INTACH, Heritage and Development: Recent Perspectives, Aryan Books International, 2012.

K.R. Gupta, Concise Encyclopedia of India: (Places of Historical and Tourist Interest), 2010.

Melanie, K. Smith, Issues in Cultural Tourism Studies, Psychology Press, 2003.

P.N. Girija Prasad, Eco-Tourism and Its Development, Adhyayan Publishers, 2012.

S.P. Gupta & Lal Krishna (eds.), Cultural Tourism in India: Museums, Monuments and Arts, 2003.

V.K. Singh, Historical and Cultural Tourism in India, Aadi Publications, 2008.

Vaibhay Chauhan, Heritage Tourism: Territory Unexplored.

Vanaja Uday, Cultural Tourism and Performing Arts of Andhra Pradesh: Prospects and Perspectives, Research India Press, 2012.

A.K. Bhatia, Tourism Development – Principles & Practices, Sterling Publishers, 2016.

Sampad Kumar, Swain & Jitendra Mohan Mishra, Principles and Practices in Tourism, OUP, 2011.

Indira, Tourism in Andhra Pradesh: Growth and Developments, 1956-2007, Research India Press, New Delhi, 2014.

D. Satyanarayana, Kotha Paryataka Sthalalu (Telugu).

# TELANGANA STATE B.A. (HISTORY) SYLLABUS

Semester - IV

# Archives and Museums (SEC - Skill Enhancement Course – II) (2019-2020)

This course introduces students to the institutions that house and maintain documentary, visual and material remains of the past. Students will be encouraged to undertake collection, documentation and exhibition of such materials in their localities and colleges. Visit to National Archives and National Museum are an integral part of the course.

- Module-I: Definition of Archives Scope Types of Archives Development of Archives National and State Archives in India Archives Understanding the Traditions of Preservation Collection Purchase Documentation: Accessioning Indexing Cataloguing Digital Documentation and De-accessioning Chemical Preservation and Restoration.
- Module-II: Definition of Museum Introduction Scope Types of Museums Significance of Museums Museums in India Museums Collection Field Exploration Excavation Purchase Gift and Exchanges Treasure Trove Documentation Indexing Museum Presentation and Exhibition Outreach Activities of Museums and Archives.

#### Recommended Books:

Saloni Mathur, India by Design: Colonial History and Cultural Display, University of California, 2007.

Sengupta, S., Experiencing History through Archives, Munshiram Manoharlal, Delhi, 2004.

Guha Thakurta, Tapati, Monuments, Objects, Histories: Institution of Art in Colonial and Post-Colonial India, New York, 2004.

Kathpalia, Y.P., Conservation and Restoration of Archive Materials, UNESCO, 1973.

Choudhary, R.D., Museums of India and Their Maladies, Agam Kala, Calcutta, 1988.

Nair, S.M., Bio-Deterioration of Museum Materials, Agam Kala Prakashan, 2011.

Agrawal, O.P., Essentials of Conservation and Museology, Sundeep Prakashan, New Delhi, 2007.



# Paper SEC - 2 (a): PRINCIPLES OF INSURANCE

Objectives: To make Students to learn Principles of Insurance.

### UNIT I: RISK MANAGEMENT AND INSURANCE & INSURANCE TERMINOLOGY:

Risk Management -Types of Risks - Actual and Consequential Losses - Management of Risks - Risk of Dying Early - Risk of Living too Long - Different Classes of Insurance - Importance of Insurance - Management of Risk by Individuals and Insurers - Fixing of Premiums - Reinsurance - Role of Insurance in Economic Development and Social Security - Constituents of Insurance Market - Operations of Insurance Companies - Operations of Intermediaries - Specialist Insurance Companies - Role of Regulators - Common and specific terms in Life and Non-Life Insurance - Understanding Insurance Customers - Customer Behavior at Purchase Point - Customer Behavior when Claim Occurs - Importance of Ethical Behavior

#### UNIT II: INSURANCE CONTRACT AND INSURANCE PRODUCTS:

Insurance Contract Terms - Principles of Insurance: Principle of Insurable Interest, Principle of Indemnity, Principle of Subrogation, Principle of Contribution, Relevant Information Disclosure, Principle of utmost Good Faith, Relevance of Proximate Cause - Life Insurance Products: Term Plans - Pure Endowment Plans - Combinations of Plans - Traditional Products - Linked Policies - Features of Annuities and Group Policies - General Insurance Products: Risks faced by Owner of Assets - Exposure to Perils - Features of Products Covering Fire and Allied Perils - Products covering Marine and Transit Risks - Products covering Financial Losses due to Accidents - Products covering Financial Losses due to Hospitalization - Products Covering Miscellaneous Risks

#### SUGGESTED READINGS:

Principles of Risk Management and Insurance: George E Rejda (13th Edition) 2. Risk Management and Insurance: Trieschman ,Gustavson and Hoyt . South Western College Publishing, 3. Principles of Insurance: A Publication of the Insurance Institute of India 4. Principles of Insurance: Telugu Academy, Hyderabad 5. Guide to Risk Management: SagarSanyal6. Principles of Insurance: Dr V Padmavathi,Dr V Jayalakshmi - PBP 7. Insurance and Risk Management: P.K. Gupta 8. Insurance Theory and Practice: Tripathi PHI 9. Principles of Insurance Management: Neelam C Gulati, Excel Books 10. Life and Health Insurance: Black, JR KENNETH & Harold Skipper, Pearson, Cincinnati,Ohio Suggested Websites: 1) www.irda.gov.in 2) www.polocyholder.gov.in 3) www.irdaindia.org.in

# Paper SEC - 4 (a): PRACTICE OF LIFE AND GENERALINSURANCE

Objective: To make students to learn Practice of Life and General Insurance

### UNIT-I: PREMIUM CALCULATION AND POLICY DOCUMENTS:

Meaning of Premium, its calculation- Rebates - Mode of Rebates - Large sum assured Rebates - Premium Loading - Rider Premiums - Computation of Benefits - Surrender value -Paid up value - General Insurance Policy Documents and Forms - Rating and Premiums - concept of soft and hard markets

# UNIT-II: SETTLEMENT OF CLAIMS RISK & UNDERWRITTINGS AND FINANCIAL PLANNING & TAX SAVING:

Life Insurance: Settlement of claims: Intimation Procedure, documents and settlement procedures - Underwriting: The need for underwriting - Guiding principles of Underwriting - Factors affecting Insurability - Methods of Life Classification - Laws affecting Underwriting - Financial Planning and taxation: Savings - Insurance vis-à-vis- Investment in the Units Mutual Funds, Capital Markets - Life Insurance in Individual Financial Planning - Implications in IT treatment.

General Insurance: Concept of Underwriting—Underwriting Process—Risk sharing and its methods—risk management and steps involved in it——Concept of Claim-understanding the process of claim management—claims fraud and fraud prevention—Insurance reserves and accounting—different types of reserves of insurance companies—reserving process followed by insurance companies—Insurance accounting.

SUGGESTED READINGS: 1. Practice of Life Insurance&General Insurance: Insurance Institute of India, Mumbai. 2. Insurance and Risk Management: P.K.Gupta, Himalaya Publishing House, Mumbai. 3. Fundamentals of Life Insurance Theories and Applications: Kanika Mishra, Prentice Hall 4. Principles of Life Insurance & Practice of General Insurance—Dr. V. Padmavathi, Dr. V. Jayalakshmi - PBP 5. Managing Life Insurance: Kutty, S.K., Prentice Hall of India: New Delhi 6. Life and Health Insurance: Black, Jr. Kenneth and Harold Skipper Jr., Prentice Hall, Inc., England. 7. Life Insurance: Principles and Practice: K.C. Mishra and C.S. Kumar, Cengage Learning, New Delhi. 8. Life Insurance in India: Sadhak, Respose Books, New Delhi. 9. Practice of General Insurance — D.S. Vittal-HPH, 10.Principles & Practice of Insurance-Dr. P. Periasamy — HPH. 11. Risk Management: A Publication of the Insurance Institute of India. 12.Insurance Theory and Practice: Tripathi PHI 13. Risk Management and Insurance: Trieschman, Gustavson and Hoyt 9. South Western College Publishing Cincinnati, Ohio.

# OSMANIA UNIVERSITY FACULTY OF SCIENCE B.Sc. (Computer Science)

SEMESTER – V Information Technologies

(General Elective)

Theory 4 Hours/Week

4Credits

### Unit - I

Computer Networks: Introduction, Connection Media, Data Transmission Mode, Data Multiplexing, Data Switching, Network Topologies, Types of Networks, Networking Devices, OSI Model. The Internet: Internet Services, Types of Internet Connections, Internet Security.

# Unit - II

Introduction to Emerging Computer Technologies: Distributed Networking, Peer-to-peer Computing, Grid Computing, Cloud Computing, Utility Computing, On-demand Computing, Wireless Network, Bluetooth, Artificial Intelligence.

#### Unit - III

Email, Functions of Email, Browser, Web Browser, Internet Service Providers.

Introduction to Information Security – Need for Information Security, Threats to Information Systems, Information Assurance, Cyber Security.

#### Unit - IV

Introduction to Application Security and Counter Measures – Introduction to Application Security, Data Security Considerations, Security Technologies, Security Threats, Security Threats to E-Commerce, E-Cash and Electronic Payment System.

#### Text Books:

Dr. Surya Prakash T, Ritendra G, Praveen Kumar S, KLSI, Introduction to Information Security and Cyber Laws (Dreamtech Publication)

# OSMANIA UNIVERSITY FACULTY OF SCIENCE B.Sc. (Computer Science) SEMESTER - VI PHP with MY SQL

(PROJECT/Optional)

Theory Practical

3 Hours/Week 3 Hours/Week

3 Credit 1 Credit

Internal marks = 15 External Marks = 60

#### Unit - I

Introducing PHP - What is PHP? Why use PHP? Evolution of PHP, Installing PHP, Other ways to run PHP, Creating your first script. PHP Language Basics - Using variables, Understanding Data Types, Operators and Expressions, Constants. Decisions and Loops - Making Decisions, Doing Repetitive Tasks with Looping, Mixing Decisions and Looping with HTML. Strings - Creating and Accessing Strings, Searching Strings, Replacing Text with Strings, Dealing with Upper and Lowercase, Formatting Strings. Arrays - Creating Arrays, Accessing Array Elements, Looping through Arrays with for-each, Creating Function, Reading Data in Web pages: setting up web pages to communicate with PHP, Handling Text Fields, Text Areas, Checkboxes, Radio Buttons, List Boxes, Password Controls, Image Maps, File Uploads, Buttons, and PHP Browser.

#### Unit - II

Object oriented programming: creating Classes and objects, setting access to properties and methods, constructors, destructors, Inheritance, overriding and overloading methods, auto loading classes. Advanced OOP: Static members and inheritance, Abstract classes, Interfaces, object iteration, comparing objects, class constants, final keyword, reflection.

File Handling: fopen, feof, fgets, closing a file, fgetc, file\_get\_contents, reading a file into an array with file, file\_exists, filesize, fread, fscanf, parse\_ini\_file, stat, fseek, copy, unlink, fwrite, reading and writing binary files, appending a file, file\_put\_contents, locking files

#### Unit - III

Introducing Databases and SQL - Deciding How to Store Data, Understanding Relational Databases, Setting Up MySQL, A Quick Play with MySQL, Connecting MySQL from PHP. Retrieving Data from MySQL with PHP, Retrieving Data with SELECT, Creating a Member Record Viewer. Manipulating MySQL Data with PHP - Inserting, Updating, and Deleting Records, Building a Member Registration Application. Sessions, Cookies and FTP.

#### Text Books:

- Steven Holzner, "PHP: The Complete Reference Paperback", McGraw Hill Education (India).
- Timothy Boronczyk, Martin E. Psinas, "PHP and MYSQL (Create-Modify-Reuse)". Wiley India Private Limited, 2008.

# 1.10 Logic and Sets

(w.e.f. academic year 2020-21)

# SEMESTER-III SEC – II (B)

Theory: 4 credits and Tutorials: 0 credits

Theory: 4 hours /week and Tutorials: 1 hours/week

Objective: Students learn some concepts in set theory and logic.

Outcome: After the completion of the course students appreciate its importance in the development

of computer science.

#### Unit- I

Basic Connectives and truth tables - Logical equivalence : Laws of Logic - Logical Implication : Rules Inference : The Use of Quantifiers - Quantifiers, Definitions, and proofs of Theorems.

#### Unit- II

Sets and Subsets - Set Operations and the Laws of Set Theory - Counting and Venn Diagrams - A First Word on Probability - The axioms of Probability - Conditional Probability: Independence - Discrete Random variables .

#### Text:

Ralph P Grimaldi, Discrete and Combinatorial Mathematics (5e)

#### References:

- · P R Halmos, Naïve Set Theory
- · E Kamke, Theory of Sets

### 1.12 Vector Calculus

(w.e.f. academic year 2020-21)

# SEMESTER-IV

SEC-IV (B)

Theory:2credits
Theory:2hours/week

**Objective:** Concepts like gradient, divergence, curl and their physical relevance will be taught. **Outcome:** Students realize the way vector calculus is used to addresses some of the problems of physics.

#### Unit- I

**Line Integrals**: Introductory Example - Work done against a Force-Evaluation of Line Integrals Conservative Vector Fields.

Surface Integrals: Introductory Example: Flow Through a PipeEvaluation of Surface Integrals.

#### Unit- II

Volume Integrals: Evaluation of Volume integrals

**Gradient, Divergence and Curl**: Partial differentiation and Taylor series-Partial differentiation Taylor series in more than one variable-Gradient of a scalar field-Gradients, conservative fields and potentials-Physical applications of the gradient.

#### Text:

· P.C. Matthews, Vector Calculus

#### References:

- · G.B. Thomas and R.L. Finney, Calculus
- · H. Anton, I. Bivens and S. Davis : Calculus
- · Smith and Minton, Calculus

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# B.Sc. (Physics) - II/III Year Semester -III/IV/V/VI Digital Electronics

(SEC)

(Credits: 02)

30 hours

# Unit I (15 hours)

Number Systems: Decimal, Binary, Octal and Hexadecimal.

Conversion: Binary to Decimal, Octal to Decimal, Hexadecimal to Decimal, Decimal to Binary,

Decimal to Octal and Decimal to Hexadecimal.

Binary coded decimal, Exess-3 code, grey code, ASCII code.

Logic Gates: OR, AND, NOT, EX-OR, NAND, NOR, Universal gates.

Half adder and Full adder.

# Unit II (15 hours)

Boolean algebra: Boolean laws, DeMorgan's theorems, Sum of products, Product of sums and

Karnaugh maps. Multiplexers and Demultiplexers.

Flip-Flops: RS flip-flop, D flip-flop, JK flip-flop and MS flip-flop.

Registers: Types of registers

Counters: Synchronous and Asynchronous counters and their differences.

Problems should be solved at the end of every chapter of all units. NOTE:

#### References

1. Digital Electronics by Gothman

2. Digital principles and applications by Malvino and Leach

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# **B.Sc. ZOOLOGY SYLLABUS UNDER CBCS 2019-20**

# B.Sc. ZOOLOGY II Year SEMESTER- III PAPER-III (SEC – I): SERICULTURE

Instructions: 2hr per week

No. of period: 30 No. of credits: 2

#### UNIT- I:

(15 Periods)

- 1.1 History and economic importance of sericulture types of silkworm Mulberry and non-Mulberry (Tassar, Eri and Muga).
- 1.2 Systematic position of Bombyx and Life Cycle Morphology of silk gland.
- 1.3 Horticulture mulberry cultivation Environmental conditions for mulberry cultivation soil, climatic factors, preparation of land.
- 1.4 Intercultivation pruning methods harvesting
- 1.5 Diseases and pests of mulberry and control methods.

#### UNIT- II:

(15 Periods)

- 2.1 Silkworm rearing general principles of silkworm rearing primary requisite for successful rearing.
- 2.2 Feeding of silkworm, bed cleaning, sparing, moulting, late age silkworms Moulting and harvesting economics of silkworm.
- 2.3 Diseases and pests of silkworm.
- 2.4 Reeling –reeling appliances and process of reeling cocoons.
- 2.5 Sericulture as cottage industry.

#### References:

- Handbook of sericulture S.R. Ullal and M. N. Varasimhanna
- 2. An introduction to sericulture G. Ganga, J. Sulochana Chetty
- Manual of Sericulture FA O Volumes.
- Handbook of Practical Sericulture: Ullal, S.R. and Narasimhanna, M.N. (1987), Central Silk Board Publication, Bangalore.
- FAO Manuals on Sericulture : Anonymous (1972), Vol. I-IV
- 6. Sericulture for Rural Development : Hanumappa (1978), Himalaya Publication,
- The Silkworm, an Important Laboratory Tool: Tazima, Y. (1978), Kodansha Publications, Tokyo.
- Control of Silkworm Reproduction, Development and Sex: Strunnikov, V.A. (1983), MIR Publications, Mascow.
- 9. Ericulture in India Sarkar, D.C. (1988), CSB, Bangalore.
- 10. Silkworm Rearing: Wupang—Chun and Chen Da-Chung (1988), Pub. By FAO.
- Handbook of Silkworm Rearing: Anonymous (1972), Agriculture and Technical Manual-1, Fuzi Pub. Co. Ltd., Tokyo, Japan.
- Improved Method of Rearing Young age silkworm: Krishnaswamy (1986), CSB Publication, Bangalore.

# **B.Sc. ZOOLOGY SYLLABUS UNDER CBCS 2019-20**

# B.Sc. ZOOLOGY II YEAR SEMESTER- IV PAPER-IV(SEC-4:) BIOMATERIALS FROM ANIMALS SOURCES

Instructions: 2hr per week

No. of period: 30 No. of credits: 2

#### **UNIT-I: Biomaterials Introduction**

(15 Periods)

- 1.1 Introduction classification, Chemistry and characterization to biomaterial, biocompatibility with medical devices
- 1.2 Types of biomaterials degradable and reabsorbable materials, hydro gels and natural materials
- 1.3 Metallic biomaterial, ceramic biomaterials, composite for biomedical applications
- 1.4 Biomaterials and its applications muscular skeletal systems
- 1.5 Delivery of drugs: for tissue engineering and regenerative medicine

## UNIT-II: Biomaterials and their applications

(15 Periods)

- 2.1 Collagen Definition, Types of Collagen, Structure of Collagen, Collagen Sources from Animal Origin Such as Bovine, Porcine, Marine and Fishes; Applications in Pharmaceutical, Tissue Engineering and Biomedical Industries.
- 2.2 Introduction to silk biomaterials: Silk fibroin and silk sericin proteins, molecular structure. Properties of silk fibroin: mechanical strength and biocompatibility. Spider dragline silk structure and properties, production from glands, spinning mechanism, Chemical Composition and Applications.
- 2.3 Structural Properties, Isolation and Processing Methods, Conversion of Chitin to Chitosan, Chemical and Biological properties; Bio Medical Applications.
- 2.4 Physico Chemical Properties, Structure, Synthesis Methods, Mechanism of Action, Physiological Function, Wound and Skin Repairs, Receptors of Hyaluronic Acid and Biomedical Applications
- 2.5 Introduction, elastin- structure, properties, Production from Various Sources, Biological Function and Biomedical Applications

#### Suggested Readings:

- Biomaterial science: An introduction to materials in medicine, Buddy D. Ratner, et. al., Elsevier academic press 3<sup>rd</sup> edition.
- 2. Biomaterial compositor by Luigi Ambrobio 210 CRC press
- 3. Styata V. Bhat, Biomaterial 2<sup>nd</sup> edition, Naros Publishing House, New Delhi
- Biological Materials Science, Biological Materials, Bioinspired Materials, and Biomaterials; Marc André Meyers, Po-Yu Chen.
- Biomaterials, Medical Devices, and Combination Products; Biocompatibility Testing and Safety Assessment; Shayne Cox Gad, Samantha Gad-McDonald
- 6. Biologically Responsive Biomaterials for Tissue Engineering. Iulian Antoniac.

# B.Sc. Chemistry II Year Semester IV Skill Enhancement Course- IV (SEC - IV) (2 Credits) Chemistry of Cosmetics and Food Processing

# Unit-I: Chemistry of Cosmetics and Perfumes

A general study including preparation and uses of the following: Hair dye, hair spray, shampoo, sunscreen lotions, lipsticks, talcum powder, nail enamel, creams (cold, vanishing and shaving creams), antiperspirants and artificial flavours. Essential oils and their importance in cosmetic industries with reference to eugenol, geraniol, sandalwood oil, eucalyptus, 2-phenyl ethyl alcohol. Demonstration experiments or illustration of experimental procedures through charts for the preparation of talcum powder, shampoo and vanishing cream. Analysis of deodorants and antiperspirant - Aluminum, Zinc, Boric acid, Chloride and Sulphide.

# Unit-II: Food Processing and Food Adulteration

Food processing: Introduction, methods for food processing, additives and preservatives. Food processing- impact on nutrition, analysis of calcium in milk by complexometric titration, spectrophotometric analysis of iron in foods, Spectrophotometric identification and determination of caffeine and benzoic acid in soft drinks. Field Work -Visit to Food Industries. Food adulteration: Adulterants in some common food items and their identification: Pulses, chilli powder, turmeric powder, milk, honey, spices, food grains and wheat flour, coffee powder, tea leaves, vegetable oil, ghee, ice creams, tomato sauce. Field Work-Collection of adulterated food samples, demonstration of a minimum of five experiments for testing adulterants in food items.

# References

- 1. E. Stocchi: Industrial Chemistry, Vol -I, Ellis Horwood Ltd. UK.
- 2. P.C. Jain, M. Jain: Engineering Chemistry, Dhanpat Rai & Sons, Delhi
- 3. Sharma, B.K. & Gaur, H. Industrial Chemistry, Goel Publishing House, Meerut (1996).
- Rameen Devi, Food Processing and Impact on Nutrition, Sc J Agric Vet Sci., AugSep 2015;
   2(4A):304-311.
- W.A. Poucher, Perfumes, Cosmetics and Soaps (1993).
- Srilakshmi, Food Science. Edition: 3rd (2004).
   Lillian Hoagland Meyer, Food chemistry (2008).
- Handbook of Analysis and Quality Control for Fruit and Vegetable Products, S. Ranganna, Tata McGraw-Hill Education, 1986 – Food.
- 9. Fundamental concepts of applied chemistry J.C Ghosh, S. Chand and Co, Ltd, New Delhi.
- Applied Chemistry K. Bhagavathi Sundhar, MJP publishers.

(Credits 2)

# Mushroom Culture Technology

Lectures: 30

# UNIT-I (15h)

- Introduction & history. Medicinal value of edible mushrooms; Poisonous mushrooms. Types of edible mushrooms available in India - Volvariella volvacea, Pleurotus citrinopileatus, Agaricus bisporus.
- Cultivation Technology: Infrastructure; substrates (locally available) Polythene bag, vessels, Inoculation hook, inoculation loop, low cost stove, sieves, culture rack, mushroom unit (Thatched house) water sprayer, tray, small polythene bag.
- Pure culture: Medium, sterilization, preparation of spawn, multiplication. Mushroom bed preparation - paddy straw, sugarcane trash, maize straw, banana leaves.
- Factors affecting the mushroom bed preparation Low cost technology, Composting technology in mushroom production.

# UNIT-II (15h)

- Storage: Short-term storage (Refrigeration upto 24 hours) Long term Storage (canning, pickles, papads), drying, storage in salt solutions.
- Nutritional value of Mushrooms: Proteins amino acids, mineral elements nutrition -Carbohydrates, Crude fibre content - Vitamins.
- Food Preparation: Types of foods prepared from mushroom. Research Centres National level and Regional level. Cost benefit ratio - Marketing in India and abroad, Export Value.

# Suggested Readings

- Marimuthu, T. Krishnamoorthy, A.S. Sivaprakasam, K. and Jayarajan. R (1991) Oyster Mushrooms, Department of Plant Pathology, Tamil Nadu Agricultural University, Coimbatore.
- Swaminathan, M. (1990) Food and Nutrition. Bappco, The Bangalore Printing and Publishing Co. Ltd., No. 88, Mysore Road, Bangalore - 560018.
- Tewari, Pankaj Kapoor, S.C., (1988). Mushroom cultivation, Mittal Publications, Delhi.
- 4. Nita Bahl (1984-1988) Hand book of Mushrooms, II Edition, Vol. 1 & Vol. II.

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b. Circle

# SKILL ENHANCEMENT COURSE-I (SEC-I)

Dept. Microbiology: Osmania University

Proposed scheme for B.ScMicrobiology program under choice based credit system (CBCS)

With effect from 2020-21

Syllabus for B.Sc Microbiology

Code: BS, SEC-1

B.Sc II year: III Semester

Title: HAEMATOLOGY 2HPW-Credits-2

## UNIT-1: INTRODUCTION TO BLOOD

Blood: definition, characters, composition. Collection of blood – capillary blood: from adults and infants, examinations employed. Venous blood: from adults and infants, examinations employed Composition of blood (RBC, WBC, Plasma, Serum, Platelet cells), Staining of blood films. Total blood picture, Differential count. Blood grouping, Rh-typing. Haemoglobin: composition and normal values, haemoglobin estimation Anti-coagulants.

### UNIT-2: BLOOD TRANSFUSION

Principles of blood transfusion, Donor screening – cross matching, collection of blood, preservation and storage. Precautions of handling blood and it's products. Challenges in management of Hemophilia and Anaemia. General account on spread of diseases through blood and blood products. Coagulation mechanism: factors, bleeding time, clotting time. Haematological indices: packed cell volume. Erythrocyte sedimentation: principle – determination.

### References:

- Kawthalkar. Essentials of Haematology Paperback 2013
- Lokwani.D.P. The ABC of CBC Interpretation of Complete Blood Count and HistogramsPaperback – 2013
- RamnikSood . Medical Laboratory technology Methods and Interpretation Jaypee Publications.
- 4. ShirishMKawthalkar. Essential Of Hematology. Jaypee Publications.

# B.Sc BIOTECHNOLOGY III YEAR SEMESTER- VI OPTIONAL PAPER I

# BS 601: IPR, BIOSAFETY AND ENTREPRENEURSHIP

# 1. Unit: Intellectual Property rights

- 1.1 Intellectual Property meaning, nature
- 1.2. Significance and need of protection of intellectual property
- 1.3. Types of intellectual property rights: patent, trademarks, copyright, design registration, trade secret, geographical indicators, plant variety protection
- 1.4. Copyright: meaning, nature, historical evolution and significance
- 1.5. Ownership of copyright rights of authors and owners, trademarks
- 1.6. Plant varieties protection and plant breeding rights

#### 2. Unit: Patent laws

- 2.1. Patents concept of patent- historical overview of the patent law in India
- 2.2. Kinds of patents procedure for obtaining patent in India and in other countries
- Patenting microbes and organisms-novelty. International Depository Authorities (IDAs). submitting details of the deposit
- 2.4. Patenting genes pros and cons, ethics, examples
- 2.5. Patenting markers and variants examples
- 2.6. Product vs process patent product life cycle and process design.

# 3. Unit: Laboratory Management and Safety

- 3.1. Administration of laboratories, laboratory design, laboratory information management system
- 3.2. Laboratory safety good laboratory practice (GLP), biosafety levels
- 3.3. Basic principles of quality control (QC) and quality assurance (QA)
- 3.4. Handling of hazardous compounds chemicals, solvents, poisons, isotopes, explosives and biological strains
- 3.5. Storage of hazardous material
- 3.6. Disposal of biological and radioisotope wastes

# 4. Unit: Entrepreneurship

- 4.1. Concept, definition, structure and theories of entrepreneurship
- 4.2. Types of start-ups with examples
- 4.3. Types of entrepreneurship, environment, process of entrepreneurial development
- 4.4. Entrepreneurial culture, entrepreneurial leadership
- 4.5. Product planning and development project management, search for business idea, concept of projects, project identification
- 4.6. Promoting bio-entrepreneurship

Department of General Pros

Unit-I (15h)

- Nursery: definition, objectives and scope and building up of infrastructure for nursery, planning and seasonal activities - Planting - direct seeding and transplants.
- Seed: Structure and types Seed dormancy; causes and methods of breaking dormancy Seed storage: Seed banks, factors affecting seed viability, genetic erosion - Seed production technology - seed testing and certification.
- Vegetative propagation: air-layering, cutting, selection of cutting, collecting season, treatment of cutting, rooting medium and planting of cuttings - Hardening of plants - green house - mist chamber, shed root, shade house and glass house.

Unit-II (15h)

- Gardening: definition, objectives and scope different types of gardening landscape and home gardening - parks and its components - plant materials and design - computer applications in landscaping - Gardening operations: soil laying, manuring, watering, management of pests and diseases and harvesting.
- Sowing/raising of seeds and seedlings Transplanting of seedlings Study of cultivation of different vegetables: cabbage, brinjal, lady's finger, onion, garlic, tomatoes, and carrots - Storage and marketing procedures.
- Features of a garden: Garden wall, Fencing, biofencing, Steps, Hedge, Edging, Lawn, Flower beds, Shrubbery, Borders, Water garden. Some Famous gardens of India. Cultivation of Important cut flowers: Carnation, Aster, Chrysanthemum, Dahlia, Gerbera, Gladiolous, Marigold, Rose, Lilium, Orchids.
- Field trip is essential.

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# Suggested Readings

- Bose T.K. & Mukherjee, D., 1972, Gardening in India, Oxford & IBH Publishing Co., New Delhi.
- 2. Sandhu, M.K., 1989, Plant Propagation, Wile Eastern Ltd., Bangalore, Madras.
- 3. Kumar, N., 1997, Introduction to Horticulture, Rajalakshmi Publications, Nagercoil.
- Edmond Musser & Andres, Fundamentals of Horticulture, McGraw Hill Book Co., New Delhi.
- Agrawal, P.K. 1993, Hand Book of Seed Technology, Dept. of Agriculture and Cooperation, National Seed Corporation Ltd., New Delhi.

 Janick Jules. 1979. Horticultural Science. (3rd Ed.), W.H. Freeman and Co., San Francisco, USA.

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Lectures: 30

# **B.Sc. ZOOLOGY SYLLABUS UNDER CBCS 2019-20**

# OPTIONAL PAPER IN PLACE OF THE PROJECT B.Sc. ZOOLOGY III YEAR SEMESTER - VI PAPER – VI: TOOLS AND TECHNIQUES IN BIOLOGY

Instructions: 4hr per week

No. of period: 60 No. of credits: 4

# **UNIT-1: Microscopy Centrifugation**

(15 Periods)

- 1.1 Microscopy Basic principle of microscopy, types of microscopes and their application
- 1.2 Histopathological techniques principle and its applications
- 1.3 Centrifugation –Basic principle of centrifugation; Preparatory and analytical centrifugation techniques and its applications

# UNIT- II: Separation techniques

(15 Periods)

- 2.1 Colorimetery and Spectrophotometry Basic principle of colorimetry and its applications, Basic principle of spectrophotometry, and applications.
- 2.2 Chromatography Basic principle of chromatography; Types of chromatography techniques and their applications
- 2.3 Electrophoresis Basic principle of electrophoresis and their applications

# UNIT- III: Advanced techniques

(15 Periods)

- 3.1 Immuno assay-Principle and applications of ELISA
- 3.2 PCR Techniques DNA extraction and isolation; Principles and applications of PCR techniques
- 3.3 RIA and its applications

# **UNIT- IV: Statistical tools**

(15 Periods)

- 4.1 Data Definition and types of data, Concept of variables; Summarising data: averages (mean, median, mode), dispersion (range, standard deviation, confidence limits);
- 4.2 Representing data Arraying data, tabulation; graphical representation of data (histogram, bar graph, line graph, scatter plot, pie diagram)
- 4.3 Non-parametric tests –Chi Square test and Parametric tests –Correlation; Student's t-Test; Regression analysis

#### Reference Books

- 1. Gurumani, N. An Introduction to Biostatistics. MJP Publisher, Chennai
- 2. Gurumani, N. Research Methodology. MJP Publishers, Chennai
- 3. Tembhare, D.B. Techniques In Life Sciences, Himalaya Publishing House, Delhi



(MoU)

BETWEEN

**ExcelR Solutions** 



8

Indira Priyadarshini Government Degree College for Women, (Autonomous), Nampally, Hyderabad



FOR

Student Development Programs, Faculty Development Programs and Student Internships on Different Emerging Software Technologies

ExcelR Solution

49, 1st Cross, 27th Main, behind Tata Motors, 1st Stage, BTM Layout, Bengaluru, Karnataka 560068.

Emeil: enquiry@escelr.com | 1800-212-2120 (Toll Free)

www.excelr.com



This Memorandum of Understanding (herein after called as the 'MOU') is entered into on this the 21<sup>st</sup> day of July month 2022 (Date 21-07-2022), by and between ExcelR Solutions,

(Here in after referred as 'First Party')

And

Indira Priyadarshini Government Degree College for Women, (Autonomous), Nampally, Hyderabad

(Here in after referred to as 'Second Party')

(First Party and Second Party are hereinafter jointly referred to as 'Parties' and individually as 'Party')

#### WHEREAS:

- 1. First Party is a EdTech company: ExceiR Solutions
- First Party & Second Party believe that collaboration and co-operation between themselves will promote more effective use of each of their resources and provide each of them with enhanced opportunities.
- The Parties intent to cooperate and focus their efforts on cooperation within area of Skill Based Training. Education and Research.
- Both Parties, being legal entities in themselves desire to sign this MOU for advancing their mutual interests.

ExcelR Solution

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**Excel® Solution** 

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- Training & Development and dissemination of knowledge for students of second party & affiliated colleges and employees of both the organizations.
- 12. ExcelR would work with incubation centers/innovation cells of second party (Case to case basis), to formulate the business cases and data collection process from various industry and academic bodies that are associated with the second party
- 13. Cooperation between both parties would be extended to any other area which may be mutually beneficial to both the organizations.

#### CLAUSE 2: SCOPE OF THE MoU

- 14. The budding graduates from the institutions could play a key role in technological up-gradation, innovation, and competitiveness of an industry. Both parties believe that close co-operation between the two would be of major benefit to the student community to columne their skills and knowledge.
- 15. Curriculum Design: First Party will give valuable inputs to the Second Party in teaching / training methodology and suitably customise the curriculum so that the students fit into the industrial scenario meaningfully.
- 16. Software Technologies Training. The first party will provide the trainings to the students and Faculties of the second party on different technologies like Data Science, Data Analyst, Artificial Intelligence, Tableau, Python, etc., Research and Development
- 17. Skill Development Programs: First Party to train the students of second Party on the emerging technologies to bridge the skill gap and make them industry ready.
- 18. Guest Lectures. First Party to extend the necessary support to deliver guest lectures to the students of the second Party on the technology trends and in house requirements.
- 19. Faculty Development Programs: First Party to train the faculties of second Party for importing training as per the industrial requirement considering the National Occupational Standards in concerned sector, if available.

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- 20. Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required for offering the Programs on the terms specified herein
- 21. There is no financial commitment on the part of the second party to enrol the students and fisculties for the different free trainings run by the first party under Everyday Learning Initiation.
- 22. First party would extend the help in providing artifacts such as training records, certificates to the second party upon a written request from the second party. This information is limited to only the students of second party and at the discretion of first party.
- 23 In case, second party wants to conduct customized commercial trainings then this agreement can be amend/adding annexure with naturally agreed terms.

#### CLAUSE 3: INTELLECTUAL PROPERTY

- 24. The first purty will have the sole rights on the curriculum and related content provided in the trainings and it cannot be replicated or copied without the consent of the first party.
- 25. Confidentiality. Except as may otherwise be required by law, each party will hold confidential, during and after the term of this Agreement, any confidential information disclosed to it or its representatives, and will not disclose any such confidential information to any third party.

#### CLAUSE 4: VALIDITY

- 26. The period of the agreement is valid for a period of 2 years from the date of signing of this agreement
- 27. This agreement will be valid only at the intentions of the parties involved therein, this MOU could be dissolved or cancelled by either party any time by giving 30 days' notice and shall not have any legal bindings in nature, should either or all the parties to it opt to not act upon, the MOU loses its validity.

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### CLAUSE 5: RELATIONSHIP BETWEEN THE PARTIES

28. It is expressly agreed that First Party and Second Party are acting under this MOU as independent contractors, and the relationship established under this MOU shall not be construed as a partnership. Neither Party is authorized to use the other Party's name to make any representations or create any obligation or liability, expressed or implied, on behalf of the other Party, without the prior written consent of the other Party. Neither Party shall have, not represent itself as having, any authority under the terms of this MOU to make agreements of any kind in the name of or binding upon the other Party, to pledge the other Party's credit, or to extend credit on behalf of the other Party.

### AGREED:

For: ExcelR Solutions.

a. Soul EXCELL

Srinivas Gurrala (Director, ExcelR)

**Authorized Signatory** 

GST:27AAEFE5003F1ZX TIN: HYDE02965E

Contact Person : Mr. M Acharya Bharadwaj

Designation : BD Manager Mobile No: 6281405729

Email ID: bharadwai.muistavaram@msels.com

Website : www.excels.com

For: Indira Priyadarshini Government Degree College for Women, (A), Nampally, Hyderabad

Dr. D. Varalakshmi (Principal, IPGDCW) Authorized Signatory

ExcelR Solution

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The Memorandum of Understanding (herein after referred as MoU) is signed on the 9th day of November 2022

By and between

RiseSharp Technologies Private Limited ("GetJobReady"), having its address at 5A, Melange Towers, Madhapur, Hyderabad, Telangana -500081 (which expression shall, wherever the context so admits, mean and include its successors in office and permitted assignees) of the ONE PART:

And

COMMISSIONERATE OF COLLEGIATE EDUCATION, GOVERNMENT OF TELANGANA having its office at 3<sup>rd</sup> Floor, Vidya Bhavan, Nampally, Hyderabad-500001 hereinafter called as 'CCETS' (which expression shall mean and include its heirs, successors, executers, administrators, authorized representatives and permitted assignees) of the OTHER PART

RiseSharp Technologies Private Limited ("GetJobReady") and 'CCETS'are hereinafter collectively referred to as 'Parties' and individually as 'Party'.

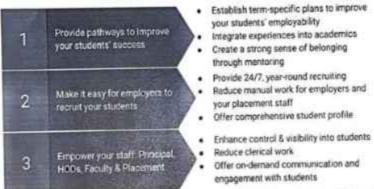
GetJobReady is a social impact venture with the mission of changing the college-to-job trajectory for millions of college students in India, by working with higher education institutions and businesses. GetJobReady was founded with a simple goal of helping college students transition from college to career successfully, help map out the best career plan of action while in college, prepare to succeed in a competitive job market, provide the resources and tutorials to pursue job opportunities, and connect job-ready college students and graduates to employers.

This Memorandum of Understanding (MoU) shall terminate upon expiration or termination of the subscription service with GetJobReady. The GetJobReady Platform, a strategic initiative to elevate a higher education institution, helps educational institutions:

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- Attract Employers: Providing with a streamlined system to attract and engage with employers. Offers a platform for employers to recruit students 24/7, year-round, and automates on-campus and off-campusrecruiting processes to reduce manual work.
- Enhance Brand: Improving institution's brand and reputation in the marketplace through best-in-class career development services infrastructure and improved student outcomes.
- Gain Visibility & Control: Empowering educational institutions with complete control and visibility into your student outcomes and job placement. Providing visibility & control at every level.

The Framework to Elevate, Powered by GetJobReady



In current challenging times, student (& parent) anxiety about not being able to develop the necessary competencies to succeed professionally and find a job upon graduation are at the top. Tackling this challenge is paramount to the success of a higher education institution, and the institution's success depends on the student outcomes. Market leading institutions like yours are turning to new strategies and approaches to maximize their value proposition, through career pathways and mentoring for students and streamlined engagement with employers.

# The GetJobReady Platform



The GetJobReady Platform helps students plan, prepare, and pursue the best path to a successful transition from college to career:

#### 1. ASSESS

Conduct assessments to learn about their career goals, interests, values, skills, and preferences.

#### Features

- Know what's Important to them, including criteria for their career selection
- Receive guidance that covers such areas as personality types, motivational traits, and top job areas to pursue
- 3. Define and clarify their academic and professional goals
- Explore their career possibilities: identify all the choices that are available to them as they consider their career path, both short-term and long-term
- Review the current market trends, opportunities and challenges impacting their field of interest

#### 2. DEVELOP

Develop strategies to achieve their professional goals and prepare to increase confidence and motivation to be successful in their job search.

#### Features

- Develop resume using Resume Builder, including creating a PDF version of resume to post on online job search directories
- Establish a polished, professional online presence (LinkedIn Profile, Profile on Job Search Sites)
- Get interview advice to help learn the art of interviewing: Review interviewing strategies, tips, and best practices
- Prepare for a library of most asked interview questions, including approaches to answering them — Questions on education, Questions on experience, Behavioral questions, Questions about Strengths and Weaknesses, Questions about salary, Open-Ended questions
- Prepare to ask an interviewer question to show their interest and gauge "fit", including company culture
- 6. Practice mock Interview sessions

#### 3. PLAN

Develop the plan, step-by-step, through the complete career planning and job search process.

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#### Features

- 1. Develop job search strategy and timeline
- 2. Map out the best plan of action while in college
- Request appointment with career services office to discuss your career plans, job-readiness, and job search plan, or discuss your graduate school plans
- Create a "best fit" companies list matched to their job goals and career
- Learn how to research companies and job roles, and how to make the best impression in a competitive job market
- 6. Ask faculty and past employers for reference letters

#### 4. EXECUTE

Connect with employers for job opportunities, including internships and other experiential learning experiences.

#### **Features**

- 1. Map out the best plan of action while in college.
- Build professional, Job-Ready skills through class projects, volunteer opportunities, summer internships and other experiential learning opportunities
- Maximize their career opportunities by improving their employment marketability and job opportunities
- Conduct an ongoing progress review to address any job search challenges and to refine job searching strategies & tactics
- Gain access to guidance on follow-up communications and salary negotiation strategies

GetJobReady offers all the above services at "free of cost" to all the colleges and students.

# 5. Term and Termination:

This Memorandum of Understanding shall come into force on the date of its signing by the parties and shall remain in force for a period of 3 (Three) years and thereafter it may be further extended with a written mutual consent of the parties. Either party may terminate this MoU by giving 60 days prior notice in writing to the other.

Your data is secure with **GetJobReady**. You own and retain all rights to yourdata. We value the trust colleges, students and employers place in us. Wedo not share user information with other, third-party organizations for their marketing or promotional use. Your information is safe and accessible to youand your users only.

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GetJobReady utilizes some of the most advanced technologies for data

security available. For and on behalf of Commissioner of Collegiate Education, Telangana	For and on behalf of RiseSharp Technologies Pvt. Ltd.
Name: Dr. G. Yadaginional Joint Director Designation: Regional Joint Director Collegiate Education.	Name: K.Mohan Menon
Witness:	Witness:
1. Breze	1.
2.	2.



# Indira Priyadarshini Government Degree College for Women (A) Nampally, Hyderabad.



Telangana Skills and Knowledge Centre (TSKC) – 2022-23Activities-**Report** 

T.Chandrakala TSKC FTM Dr G.M Kasturi
TSKC Co-Ordinator

Dr D.Varalakshmi
PRINCIPAL

# I. MOU'S

# MEMORANDUM OF UNDERSTANDING BETWEEN M/S UMEED, HYDERABAD AND

# COMMISSIONERATE OF COLLEGIATE EDUCATION (CCETS), GOVERNEMENT OF TELANGANA

# FOR THE COLLABORATIVE EDUCATION, RESEARCH & TRAINING

This Memorandum of Understanding signed on 29, July, 2022between M/S UMEED, registered under the Andhra Pradesh Societies Registration Act., 2001 exemption with registered address at 19-4-332/C-1, Kishanbagh, Bahadurpura, Hyderabad, Telangana-500064 is a women's empowerment organization based in Hyderabad, India that works with women across social-economic backgrounds.

#### AND

The Commissionerate of Collegiate Education, Government of Telangana, Vidya Bhavan, Nampally, Hyderabad 500001 (herein after known as CCETS, Hyderabadwhich expression shall mean and include its heirs, successors, executers, administrators, authorized representatives and permitted assigns) is intended to facilitate a collaborative programin the field of women's empowerment between the two organizations.

#### Whereas,

- (A) UMEED is a women's empowerment organisation based in Hyderabad, India since 2014 that works with women from across socio-economic backgrounds. Umeed's FirstLeap is a job readiness and empowerment training program, designed for young women. The program aims to make women well equipped with job readiness skills, a strong mindset and exposure to the professional world thus making them personally, socially and economically empowered.
- (B) Commissionerate of Collegiate Education, Government of Telanganais the Department created to promote education, giving special attention to the students hailing from backward and rural areas. It aims to strengthen education at Under Graduate and Post

Graduate level especially for women and under privileged sections of the society.

Whereas, both M/S UMEEDand CCETS, Hyderabad(herein after together referred to as parties) are empowered to enter into collaborative agreement of this nature in respect to the subjects related to achieve its goals objectives as stated by them.

#### NOW THEREFORE PARTIES HERETO AGREE AS FOLLOWS:

To enter into Memorandum of Understanding for a joint collaborative program of Education, Research, Training to the students&faculty membersbetween the two institutions.

### 1. PURPOSE

UMEEDand CCETS, Hyderabad have entered into an MoU for **3years** to implement its FirstLeap- ajob readiness and empowerment program with final year women students of Government Degree Collegesacross the State of Telangana. This is a 4 month long rigorous trainingprogram which empowerswomen holistically with functional professional skills, values that make them job ready and exposure to learn from various industries that can absorb them in their work force.

Other agreed activities that further the aims and objectives of both parties mutually agreed upon are as follows:

# UMEED will carry out the below responsibilities:

- Initiate all the efforts of understanding& training needs by conducting need assessment surveys of the student participant group.
- Deliver program curriculum by conducting of all 3-fold (Skill, Mindset and Exposure) training sessions for the training batches in the program.
- Monitor and evaluate participant performance in the training program.

- IV. Lead exposure activities with regards to employmentopportunities for students
- V. Collaborate with college cells (E.g. Placement Cell, TSKC and WEC) and support in access to employment opportunities for students

# CCETS will carry out the below responsibilities:

- Provide overall approvals to implement all stages of the Umeed's training program in all Government Degree Colleges.
- Support for amendmentsin MoU and extensions for this project (If required).
- III. Provide support in ensuring the cooperation of college authorities in the smooth implementation of the program.
- IV. Provide support to colleges to ensure smooth implementation of the program
- V. Department to assign a POC for this project to liaise with on any program related support/enquiry.

# Government Degree Colleges will carry out the below responsibilities:

- Support in all efforts to put together cohorts/batches of participants for all training batches for theprogram.
- II. Support in logistical arrangements to conduct training programs.
- III. Provide a POC (Point of Contact) from the college who will support Umeed in all program related tasks.
- IV. Support Umeed in the planning and coordination of exposure field visits for the participants.
- V. Provide Umeed with a SPOC from the college who accompanies the cohort in exposure fieldvisits.
- VI. Support UMEED will all required information that will inform their decision making for tasksrelated to training like content design, assessments, calendaring sessions, resourceallocation etc.

### 2. IMPLEMENTATION

- All programs or activities implemented under the term of this Memorandum of Understanding shall be mutually agreed upon in writing, including the necessary budget for the program of activity as the need may arise.
- UMEED, shall be fully responsible financially for the activities carried out under its direction or by its staff, except as otherwise agreed by UMEED and CCETS, Hyderabad.
- iii. BothUMEED and CCETS, Hyderabad will designate one officer each who will develop and coordinate specific programs or activities between them.

#### 3. PROGRAM SCOPE

- Program will be implemented in 2 phases across 3 years.
- ii. Phase 1 is a pilot program of 15 months to be implemented with women students of 3 degree colleges in Hyderabad
- iii. Phase 2 is a 21-month long program intervention spread across 2 academic years with the aim to implement the program in 10 Government Degree Colleges across 3 or more cities in Telangana state.

### 4. MEDIA/COMMUNICATION

UMEED and CCETS shall publicize the positive impact of the partnership on their respective media channels. However, as courtesy and for legal reasons, all press statements/brand usage that mention any of the above parties, shall be coordinated with each other.

UMEEDagrees to share photographs, impact stories, logo, Newsletters and any other communication material created for public consumption with CCETS and will allow CCETS to use it on their communication channels.

### 5. DURATION AND RENEWAL OF AGREEMENT

The memorandum of understanding will become effective immediately after signature by the representatives of UMEED and CCETS, Page 4 of 6

Hyderabadfor a period of 3 years. The MoU may be subject to renewal on mutual consent of both parties, for the period internally agreed upon.

#### 6. AMENDMENTS

- a) This memorandum of understanding may be amended by a written agreement signed by the representatives of both UMEEDand CCETS, Hyderabad.
- b) In the event of any unforeseen incident during collaborative activities both UMEED and CCETS, Hyderabadagree to negotiate a mutually and acceptable solution.

### 7. FINANCIAL ARRANGEMENT

There will not be any financial commitment between the parties and cost, if any, for exchange of faculty and students shall be borne by the individual or borrowing organization as the case may be.

### 8. CONFIDENTIALITY

- Each party recognizes that pursuant to this MoU, if, given access to
  information that is confidential and /or proprietary to the other party;
  and agrees to undertake not to use any such confidential, proprietary
  or restricted information for the own purpose without the prior
  written consent of the other party.
- 2. Both the parties shall take all reasonable steps to keep confidential (and ensure that its employees, students, associates and agents also keep them confidential), any subject matter and information or material classified as confidential, whether technical or commercial, acquired formally or informally by either party from the other or their staff or students or by the Researcher(s) concerned in the work done or to be done under this agreement.
- Neither party shall assign and/or transfer any nor all of its rights, obligation and/or interests arising or claimed under or by virtue of this MoU to a third party without obtaining the prior written consent of the other party.

#### JOB MELA-1 CONDUCTED on 03-06-2022:









### REPORT:

We conducted job mela on 3<sup>rd</sup> June 2022 with companies namely, Wipro, Genpact (with consultancy of Invention yards), Bank Zone Financial Services.Nearly 200 students were participated in the drive. 4 HR Persons are from wipro and genpact and Dileep Kumar from Bank Zone conducted interview sessions. 20 to 25 students got selected in different companies.In this Job Drive TSKC Coordinator Smt J Sridevi,TSKC Member Smt Asiya Jabeen and Compute Science Faculty Smt Jyothsna and TSKC FTM T.Chandrakala have participated.

### TSKC CAREER GUIDANCE PROGRAMME ON 4th June 2022







### REPORT:

We conducted TSKC Career Guidance Programme for I,II&III year students on 4th June 2022. Nearly 200 students were attended and they had interacted with the Speaker and they have clarified their doubts on their future career. TSKC Coordinator Smt J Sridevi, TSKC Member Smt Asiya Jabeen and Compute Science Faculty Smt Jyothsna and TSKC FTM T. Chandrakala have participated.

### 2.JOB MELA-2 CONDUCTED on 11-06-2022









#### REPORT:

We conducted job mela on 11th June 2022 with company namely, Eduknox. Nearly 50 students were participated in the drive. 2 HR Persons from Eduknox miss Srivalli f conducted interview sessions. 5 students got selected in pallavi International Schools different areas in Hyderabad...In this Job Drive TSKC Coordinator Smt J Sridevi, TSKC Member Smt Asiya Jabeen and Compute Science Faculty Smt Jyothsna and TSKC FTM T.Chandrakala have participated.

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# 3. UMEED AWARENESS TRAINING PROGRAMME(3MONTHS)





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TSKC coordinator

PRINCIPAL Indira Priyedarshiri Govt. Degree College for Women Nampally, Hyderabad.



















### Report:

Umeed Training Programme is going on for final year students. It is impacted students skill and Mindset. Students they are learning very much with enthusiasm and also they are enjoying each and every session with knowledge.

# United Way of Hyderabad training Programme:



Report:

United way of Hyderabad job readiness programme conducted interview sessions for final year students. It is impacted students skill and Mindset. Students they are learning very much with enthusiasm and also they are enjoying each and every session with knowledge.

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# Society for Economic Development Programme on 15th November 2022:











### Report:

We conducted the programme on the topic is society for economic development. Speaker Mr Ramakrishna9 Personality Development Trainer explained about society development.

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## TASK(Telanagan Academy Skills &Knowledge) Orientation Programme:

TASK Orientation activity conducted on 30<sup>th</sup> November 2022, 150 students were attended from B.A,B.Com and B.Sc students. In this programme how to communicate with others and how to prepare for interview and how to get Job. Students motivated and learnt more. In this Programme Vice Principal Smt Shahjahan, TSKC Coordinator Dr G.M Kasturi and other faculty members & TSKC FTM T.chandrakala have participated.

### Trainer Name: Mr Devendar Bhukya





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# TSKC & Economics Department career Guidance Programme & workshop:









### Report:

TSKC & Economics department has conducted career guidance programme on on 28<sup>th</sup> December 2022.Mr Anand Motivator & Singer explained about career guidance to all the students. 50 students were participated.

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# TASK Communication skills on 23rd January 2023:

TASK Communications skills activity conducted on 23rd January 2023, 32 students were attended from B.A,B.Com and B.Sc students. In this programme how to communicate with others and how to prepare for interview and how to get Job. Students motivated and learnt more. In this Programme Principal Dr D.Varalakshmi, TSKC Coordinator Smt Kasturi and other faculty members & TSKC FTM T.chandrakala have participated.



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student name class Phoneno Polloo. Singnahan 827 c. Dahwanya &schopert 110/22908010 6305540850 principal TSKC Coordinator PRINCIPAL Indira Priyadarshiril Govt. Degree College for Woman Nampally, Hyderabad.

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### UMEED TRAINING PROGRAMME SECOND BATCH:





## Report

Umeed Training Programme for Second batch is going on for final year students. It is impacted students skill and Mindset. Students they are learning very much with enthusiasm and also they are enjoying each and every session with knowledge.

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# Umeed mock interview sessions on 2<sup>nd</sup> February 2023:









# 6<sup>TH</sup> FEBRUARY 2023:



# 2<sup>nd</sup> February 2023:IASWALA CAREER GUIDANCE PROGRAMME:







### Report:

We organized a programme in collaboration with IASWALA Online cum offline platform for competative examinations in 2<sup>nd</sup> february 2022.

### TASK Training Programme on 21st Century transferable skills:

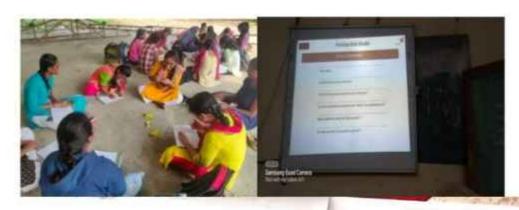
TASK Communications skills activity conducted on 5<sup>th</sup> January 2023, 32 students were attended from B.A,B.Com and B.Sc students. In this programme how to communicate with others and how to prepare for interview and how to get Job. Students motivated and learnt more. In this Programme Principal Dr D.Varalakshmi, TSKC Coordinator Dr G.M Kasturi and other faculty members & TSKC FTM T.chandrakala have participated.

### Trainer Name: Muzna Been Ajmeri









# 16th September 2022 Days

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### Two - day work shop on

# Development Of Point-Of-Care Diagnostics For Screening Pathogenic Diseases" 12<sup>th</sup> -13<sup>th</sup> April 2023

## Dept of Biotechnology and Microbiology In Collaboration with

### Genomix Molecular Diagnostics PVT.LTD. Kukatpally, Hyderabad

(An activity under MoU)

No. of Students Participated: 12

Day 1 of the programme started with Principles and Technology involved in the development of Lateral Flow assay Rapid Kit for infectious diseases Talk by Mrs.K.Geethanjali, Asst. Professor in Biotechnology. Dr. J.Sridevi has given the talk on overview of Different types of ELISA Assays.

Day 2 work shop was held at Genomix Molecular Diagnostics PVT.LTD. Kukatpally, Hyderabad on demonstration of casting and testing of LFA. Testing of ELISA was also demonstrated using ELISA reader.







Indira Priyadarshini Govt. Degree College for Womt Degree College for Womt Nampally, Hyderabad (Reaccredited with 'A' Grade by NAAC)

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TWO-DAY HANDS-ON TRAINING WORKSHOP

DEVELOPMENT OF POINT-OF-CARE DIAGNOSTICS FOR SCREENING PATHOGENIC DISEASES

12th -13th April 2023

### Department of Biotechnology & Microbiology

In Collaboration with

Genomix Molecular Diagnostics PVT.LTD. Kukatpally, Hyderabad

### Chairman

Dr. D.Varalakshmi Principal IPGDCW (A), Nampally, Hyd

#### Mentor

Mrs. K.Geethanjali Asst, Prof of Biotechnology

Dr. J.Sridevi, Asst.Prof of Microbiology

Dr. K.Shanthi, Associate Professor of Biotechnology

### Technical support

Mr.G.Narayana Production Manager Genomix Molecular Dignostics