**Annexure – I**

**Detail of Theory Syllabus**

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| SL NO | CONTENT | DETAILS |
| 1 | Types and Roles of organic manures. | * 1. Information about types of organic manures.   2. Information about source of organic manures.   3. Knowledge about use of Organic manures in field.   4. Knowledge about importance of Organic manures. |
| 2 | Importance of vermicompost and earthworms. | (2.1) Understanding and identifying types of earthworm species.  (2.2) Knowledge about role of earthworms in soil.  (2.3) Comprehending importance of vermicomposting.  (2.4) Enumerating benefits of vermicompost. |
| 3 | Description and methods of vermicomposting. | Understanding basic principles of various methods of Vermicomposting viz.  (3.1) Pit method of vermicomposting.  (3.2) Heap method of vermicomposting.  (3.3) Poly-vermi method.  (3.4) Hanging methods, etc. |
| 4 | Selection of vermicompost material and decomposition. | (4.1) Studying various parameters used in selection of raw materials  from agricultural source  (4.2) Knowledge about various methods of decomposition |
| 5 | Preparation procedure of vermicomposting and application of bedwash and vermiwash in the field. | (5.1) Studying various steps used in preparation of vermicompost  (5.2) Studying various steps involved in application of bed wash in field  (Dilution by water, foliar spraying and soil application)  (5.3) Studying various steps involved in application of vermiwash in filed  (Dilution by water, foliar spraying and soil application) |

**Detail of Practical Syllabus**

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| SL NO | CONTENT | DETAILS |
| 1 | Methods of vermicomposting. | (1.1) Practice on Pit method of vermicomposting.  (1.2) Practice on Heap method of vermicomposting.  (1.3) Practice on Poly-vermi method.  (1.4) Practice on Hanging methods.  (1.5) Enumerating possible risks and hazards in the work environment  (1.6) Practising safety excercises. |
| 2 | Selection of raw materials and decomposing system. | (2.1) Practice on selecting compostable and non-compostable raw materials.  (2.2) Practice on mixing of raw materials in proper proportion.  (2.3) Selecting proper method of decomposition from various methods viz.  open system, poly system and pit system |
| 3 | Selection of earthworms’ species and preparation of vermicompost. | (3.1)Practice on selection of commercial earthworm Species based on  Morphological characteristics viz. *Eiseniafoetida, Eudriluseuginae,*  *Perionyxexcavatus*  (3.2) Practice on preparation of vermicompost using commercial earthworms. |
| 4 | Multiplication (Breeding and rearing) of earthworm. | (4.1) Practice on breeding of earthworms in tray and rack.  (4.2) Practice on rearing of earthworms in tray and rack.  (4.3) Practice on segregating adult earthworms for vermi production. |
| 5 | Harvesting, sieving, testing and packaging of vermicompost. | (5.1) Harvesting -Practice on collection of vermi casting from bed.  (5.2) Sieving – Practice on sieving vermicompost-identifying cocoon of earthworm for excluding.  (5.3) Testing:- Practice on determination of pH, Electrical Conductivity (Na+, K+ ), NPK and Sulphur of vermicompost.  (5.4) Observing Physical appearance - Observation of Vermicompost to understand physical appearance and characteristics.  (5.5) Packaging- Practice on Packaging of vermicompost in polyethylene bag  of 50kg capacity for farmers and small pack for domestic use. |
| 6 | Application of vermicompost, bedwash and vermiwash in the field. | (6.1) Practice on application of vermicompost based on soil profile, field area  and crop types.  (6.2) Practice on application of bedwash in field by foliar spraying  (6.3) Practice on application of vermiwash in filed by foliar spraying |

**Detail of Employability Skills Syllabus**

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| Sl. No. | Content | Details |
| 1. | English Literacy & Communication Skills | Accentuation (mode of pronunciation) on simple words, Diction (use of word and speech)  Transformation of sentences, Voice change, Change of tense, Spellings. Reading and understanding simple sentences about self, work and environment. Construction of simple sentences, Writing simple English.  Speaking with preparation on self, on family, on friends, classmates, on know, picture reading gain confidence through role-playing . Taking messages, passing messages on and filling in message forms Greeting and introductions office hospitality, Resumes or curriculum vita essential parts, letters of application reference to previous communication.  Communication and its importance, Principles of Effective communication, Types of communication – verbal, non verbal, written, email, talking on phone. Non verbal communication –characteristics, components-Para-language,  Body – language,  Barriers to communication and dealing with barriers.  Handling nervousness/ discomfort.  Self awareness, Importance of Commitment, Ethics and Values, Ways to Motivate Oneself, Personal Goal setting and Employability Planning.  Manners, Etiquettes, Dress code for an interview, Do’s & Don’ts for an interview, Problem Solving, Confidence Building, Attitude. |
| 2. | I.T. Literacy | Introduction, Computer and its applications, Hardware and peripherals, Switching on-Starting and shutting down of computer.  Basics of Operating System, WINDOWS, The user interface of Windows OS, Create, Copy, Move and delete Files and Folders, Use of External memory like pen drive, CD, DVD etc, Use of Common applications.  Basic operating of Word Processing, Creating, opening and closing Documents, use of shortcuts, Creating and Editing of Text, Formatting the Text, Insertion & creation of Tables. Printing document.  Basics of Excel worksheet, understanding basic commands, creating simple worksheets, understanding sample worksheets, use of simple formulas and functions, Printing of simple excel sheets  Internet, Concept of Internet (Network of Networks),  Meaning of World Wide Web (WWW), Web Browser, Web Site, Web page and Search Engines. Accessing the Internet using Web Browser, Downloading and Printing Web Pages, Opening an email account and use of email. Social media sites and its implication.  Information Security and antivirus tools, Do’s and Don’ts in Information Security, Awareness of IT – ACT, types of cyber crimes. |
| 3. | Entrepreneurship Skills | Entrepreneurship vs. management, Entrepreneurial motivation. Performance & Record, Role & Function of Entrepreneur, Qualities of a good Entrepreneur, SWOT and RiskAnalysis. Concept & application of PLC, Sales &distribution Management. Different Between Small Scale & Large Scale Business, Market Survey, Method of marketing, Publicity and advertisement, Marketing Mix.  Preparation of Project. Role of Various Schemes andInstitutes for self-employment i.e. DIC, SIDA, SISI, NSIC, SIDO, Idea for financing/ non financing support agencies to familiarizes with the Policies /Programmes & procedure & the available scheme.  Project formation, Feasibility, Legal formalities i.e.,Shop Act, Estimation & Costing, Investment procedure – Loan procurement – Banking Processes. |
|  | Productivity & Quality Tools | Definition, Necessity, Meaning of GDP.  Personal / Workman – Incentive, Production linked Bonus, Improvement in living standard. Industry Nation.  Skills, Working Aids, Automation, Environment, Motivation. How improves or slows down.  Banking processes, Handling ATM, KYC registration, safe cash handling, Personal risk and Insurance.  Meaning of quality, Quality characteristic. Definition, Advantage of small group activity, objectives of quality Circle, Roles and function of Quality Circles in Organization, Operation of Quality circle. Approaches to starting Quality Circles, Steps for continuation Quality Circles.  Idea of ISO 9000 and BIS systems and its importance in maintaining qualities.  Purpose of Housekeeping, Practice of good Housekeeping. Basic quality tools with a few examples |
|  | Occupational safety, health and Environment Education & Labour Welfare Legislation | Introduction to Occupational Safety and Health importance of safety and health at workplace. Basic Hazards, Chemical Hazards, Mechanical Hazards, Electrical Hazards, Thermal Hazards.  Occupational health, Occupational hygienic, Occupational Diseases/ Disorders & its prevention.  Basic principles for protective equipment.  Accident Prevention techniques – control of accidents and safety measures.  Care of injured & Sick at the workplaces, First-Aid & Transportation of sick person.  Benefits guaranteed under various acts- Factories Act, Apprenticeship Act, Employees State Insurance Act (ESI), Payment Wages Act, Employees Provident Fund Act, The Workmen’s compensation Act. |