

Ahmednagar Jilha Maratha Vidya Prasarak Samaj's

New Arts, Commerce and Science College, Shevgaon



INTERNAL QUALITY ASSURANCE CELL

CRITERION1: Curricular Aspects



2017-18 to 2021-22

DVV Clarification No- 2
Curriculum of Certificate Courses

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New Arts Commerce and Science College Shevgaon.

Department of English

Carrier Oriented Certificate Course

Certificate Course in Technical and Professional Writing in English

Syllabus for the Course 2021-22

Unit 1: What is technical writing?

- (i) Technical writing: Meaning and Definition
- (ii) Technical writing: Scope and the Role of Technical Writer

Unit 2: Basics of Computer Literacy

- (i) Computer Literacy and Documentation Processes:
- (ii) Basics of MS Word
- (iii) Basics of Power Point Presentation (PPT)
- (iv) Basics of Excel
- (v) Basics of E-mail
- (vi) Texting
- (vii) Basics of Blog Writing and making files

Unit 3: English Grammar and Writing Skills

English Grammar:

- (i) Tenses
- (ii) Sentence Structures
- (iii) Punctuation Marks
- (iv) Change the Voice
- (v) Direct and Indirect Sentences
- (vi) Types of Sentences

Writing Skills:

- (i) Rules of Writing Assigned Tasks
- (ii) Paragraph Writing
- (iii) Letter Writing (Job application, complaint, and request)
- (iv) Report Writing (formal and informal)
- (v) Manual Writing (user manual)
- (vi) Research Project Writing
- (vii) Research Article Writing
- (viii) Notice Writing
- (ix) Agenda and Minutes of the Meeting

Unit 4: Practical Application

Writing Project on the Course

**Department of Computer Science
Certificate Course
On**

Website's using Wordpress

Syllabus

Overview

In this course you will learn to launch your website quickly with the help of a quick WordPress installation guide; create a quality website with a proper assembly of important subpages; install and work with plugins and widgets; install and create attractive themes for your website; create custom menus to improve the user experience of your website; upload multimedia content such as images, audio, and video easily and effectively

Credits

Unit 1 :

1 INTRODUCING WORDPRESS.

- 1.1 Getting into WordPress
- 1.2 Why choose WordPress?
- 1.3 Learning more with online WordPress resources

2 GETTING STARTED WITH WORDPRESS.

- 2.1 Building your WordPress website – start here
- 2.2 Getting and installing WordPress
- 2.3 Installing WordPress through an auto-installer script
The wp-admin panel
- 2.4 Using theme and plugin directories

By 

Unit 2 :

3 CREATING BLOG CONTENT.

- 3.1 WordPress admin conventions
- 3.2 Posting on your blog
- 3.3 Discussion on your blog – comments
- 3.4 Adding and managing categories
- 3.5 Learning more with online WordPress resources

4 PAGES, MEDIA, AND IMPORTING/EXPORTING CONTENT.

- 4.1 Pages
- 4.2 Media library
- 4.3 Importing/exporting content

5 PLUGINS - WHAT THEY ARE AND WHY YOU NEED THEM.

- 5.1 Breaking down plugins – what are they?
- 5.2 Installing a plugin – how to go about this
- 5.3 The must-have pack of plugins.

Per 

HEAD

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अहमदनगर जिला मराठा विद्या प्रसारक समाज का
न्यू आर्ट्स कॉमर्स एंड साइंस कॉलेज शेवगांव
हिंदी विभाग
पाठ्यपथ्या पटकथा लेखन :-
कर्मांक)Credit 02 (

उद्देश्य :-

- 1 छात्रों को स्क्रिप्ट लेखनपरिभाषा से अवगत करना ,अर्थ ,
- 2 छात्रों को कथा पटकथा और संवाद लेखन से परिचित करना
- 3 छात्रों को ड्राफ्ट बनाने से परिचित करना

इकाई	पाठ्य विषय	तसिकाएँ
1	<p>कथा पारिभा ,लेखन अर्थ(स्क्रिप्ट)षा और सामान्य परिचय ।</p> <p>कथा के तीन अंग उदाहरण सहित संक्षिप्त . पटकथा और संवाद,कथा -: जानकारी।</p> <p>शों की परस्परवलाम्बिता और दृश्य श्रव्य माध्यम में महत्व ।</p> <p>कथा लेखन की प्रक्रिया(स्क्रिप्ट)।</p> <p>वार , शीर्षक) सारांश-वन लाइनर या लॉन्ग लाइन(आइडिया) कथावस्तु पत्रों की सूची। (</p> <p>ट बनाना –पत्रों का परिचय और उन्हें स्थापित करना पत्रों का विकास , ।</p> <p>स्ट बनाना – इनडोरसंवाद पत्र की क्रिया ,स्थान ,समय , आउटडोर/ और प्रतिक्रिया।</p>	15
2	<p>ष –श्राव्य माध्यम के विभिन्न प्रकारों के लिए स्क्रिप्ट लेखन सामान्य) (दिशा निर्देश</p> <p>पत्रविज्ञापन शॉ ,टेलीफिल्म -ई फिल्म फिल्म –वॉक थू एवं अन्य चलचित्र ।</p> <p>ई फिल्म के लिए स्क्रिप्ट लेखन का विशेष परिचय ।</p> <p>कथा के प्रारूप मुख्य सॉफ्टवेयरों की जानकारी ।</p>	15

CERTIFICATE COURSE

FOOD PROCESSING AND PRESERVATION

Theory Topics-

10L

1. Introduction
2. Types and Methods of Food Preservation
3. Canning
4. Dried Fruit chips
5. Fruit Pulp
6. Squash
7. Jam and Jellies With Pectin and Without Pectin
8. Preparation of Mango Pickles-Punjabi and Maharashtra
9. Preparation of Amla Supari
10. Methods of Vegetables dehydration.

Practical

20 Hr.

1. Preparation of Apple Jam.
2. Preparation of Stone apple Jelly
3. Preparation of Strawberry Jelly With Pectin
4. Preparation of Squash- Rose, Lemon, Orange
5. Preparation of Lemon Pickles
6. Processing of Peas
7. Preparation of Tomato Ketchup
8. Preparation of Butter and Buttermilk
9. Preparation of Mozzarella Cheese
10. Preparation of Pizza.
11. Preparation of Amla Candy

Ahmednagar Jilha Maratha Vidya Prasarak Samaj's
New Arts, Commerce and Science College, Shevgaon


Department of Economics

Certificate Course on Financial Literacy

Syllabus

-
1. **Barter System:** Concept of Barter System, Need and Wants, Evolution of Trade, Problem of Barter System
 2. **Understanding Basic Financial Concept:** Money, Currency, Bank, Account, Saving and Investment
 3. **Banking System:** Evolution of Money, Origin of Bank, Bank and Their Importance, Types of Bank, Account Opening and Types.
 4. **Reserve Bank of India - Role and Importance:** Implements monetary policies, Manages foreign exchange reserves, Acts as banker to the government, financial regulation and supervision.
 5. **Security and Mode of Digital Payments:** About National Payments Corporation of India (NPCI), Introduction to Digital Banking, Understanding Digital Payments, Benefits of Digital Payments, Modes of Digital Payments – Card Based, Guidelines for the use of banking cards.
 6. **E-commerce payment:** Automated Teller Machines (ATMs), Aadhaar Enabled Payment System (AePS), - Mobile Based Banking and Others- Internet Banking, National Electronic Fund Transfer (NEFT), Real-Time Gross Settlement (RTGS), Immediate Payment Service (IMPS), Unified Payments Interface (UPI).




Principal
New Arts, Com. & Science College
Shevgaon, Dist. Ahmednagar

**NEW ARTS, COMMERCE AND SCIENCE COLLEGE,
SHEVGAON**

**DEPARTMENT OF CHEMISTRY
CERTIFICATE COURSE IN CHROMATOGRAPHY
SYLLABUS
A.Y.- 2021-2022**

Name of Faculty – Miss. Phalke A. A.

Class – M.Sc. II (Analytical & Organic)

**(6) CHROMATOGRAPHIC TECHNIQUES FOR DESIGNING
FORENSIC AND INDUSTRIAL APPLICATIONS**

KEY COMPETENCIES: The course covers just a portion of analytical chemistry and aligns to a job role at Level 5 named “Research Associate- Analytical & Bioanalytical”.

The course is designed exclusively for forensic and industrial application. It is related to more voluminous job role of “Quality Control Chemist” at Level 5.

ASSESSMENT: Assessment include continuous assessments which will comprise of following:

- ✓ 20 marks of theory component
- ✓ 20 marks of internal assessments
- ✓ 60 marks of skill assessment conducted by assessors of SSC

Course Structure: The course can be run in any of the 2 semesters in a year.

The course is designed exclusively for forensic and industrial application involving 60 hrs theory and related sophisticated techniques including practicals with hands on training as follows:

1) Thin layer chromatography (TLC) and High performance thin layer chromatography (HPTLC) (6hrs)

Fundamentals and Principles of Thin Layer Chromatography (TLC), High performance Thin Layer Chromatography (HPTLC), Mobile- Stationary phases, Normal- Reverse phases, Visualizing reagent (KMnO₄, Ninhydrin, DD and others), Applicability and Importance with examples.

Applications: TLC and HPTLC technique are applicable for the separation and identification of samples like poisons (like Pesticides/Herbicides/Organic volatile/and non-volatiles poisons/Plant poisons), Narcotic drugs and psychotropic substances, Alkaloids, Benzodiazepines, Hallucinogens, Barbiturates, Organic Explosive, Dyes, Oils, Food stuffs and substances etc.

2) Gas Chromatography (GC) 14 hrs

Fundamentals and Principles of Gas Chromatography (GC), Instrumentation, Sample preparation, Carrier gases, Injectors (split/splitless, PTV, Head Space, Pyrolyzer and others), Pack and Capillary Columns, Detectors (TCD, FID, ECD, NPD, TEA, Ion Mobility Scan), Applications and importance with examples, Limitations, Data processing and interpretation, Hands-on training

Applications: Gas Chromatography technique applicable to separate, identify and quantify samples like Petroleum products (Kerosene, Diesel, Petrol, Low boiling solvents etc. and their residues.) Poisons, Narcotic drugs and psychotropic substances, Explosives (RDX, TNT, PETN, CE etc.), Alcohol percentage in blood, Pharmaceutical drugs, Natural products, various organic solvents and chemicals, etc.

Gas Chromatography–Mass Spectrometry (GC-MS) (14 hrs)

Fundamentals and Principles of Gas chromatography–mass spectrometry (GC-MS), Instrumentation, Ionization, Detectors–Mass Selective Detector (MSD), Time of flight (TOF) and others, Data analysis, Applications with examples, Hands-on training

Applications: GC-MS technique applicable to identify and quantify samples like Narcotic drugs and psychotropic substances, Different class of poisons, Petroleum products and their residues, Miscellaneous drugs, Pharmaceutical drugs, etc.

3) High Performance Liquid Chromatography (HPLC) (16 hrs)

Fundamentals and Principles of High Performance Liquid Chromatography (HPLC), Instrumentation, Types of HPLC–Normal phase HPLC, Reverse Phase HPLC, Ion Exchange Chromatography (IEC), Size exclusion chromatography, Mobile phases, Sample preparation, Limitations of HPLC, HPLC injectors, HPLC pumps, HPLC columns, HPLC detectors (UV-Visible, fluorescence, PDA, RI and others), Elution systems–Isocratic and Gradient, Applications with examples, Hands-on training

Applications: High Performance Liquid Chromatography (HPLC) technique applicable for to Chromatographic Separation, Identifications and Quantifications of Thermolabile samples, various drugs, pesticides explosive, snake venom and blood samples etc.

4) Liquid Chromatography–Mass Spectrometry (LC–MS) (10 hrs)

Fundamentals and Principles of Liquid Chromatography–Mass Spectrometry (LC–MS), Instrumentation, Ionization, MS analysis, Applications with examples, Hands-on training

Applications: LC-MS technique applicable to identify and quantify Thermostable samples, Narcotic drugs and psychotropic substances, Different class of poisons, Petroleum products and their residues, Miscellaneous drugs, Pharmaceutical drugs, etc.

dpang

Course Coordinator



Head

Department of Chemistry
New Arts, Commerce & Science College
Shevgaon, Dist. Ahmednagar

अहमदनगर जिल्हा मराठा विद्या प्रसारक समाजाचे
न्यू आर्ट्स कॉमर्स अँड सायन्स कॉलेज, शेवगाव ता.शेवगाव जि.अहमदनगर
मराठी विभाग
महाविद्यालय विकास समिती मान्यता प्राप्त प्रमाणपत्र कोर्स
मराठी भाषा अलंकार
नियोजित अभ्यासक्रम

प्रकरण पहिले

मराठी भाषा, ग्रंथ व साहित्यिकांचा परीचय

- १) मराठी व्याकरणाचे नियम
- २) मराठीतील आद्य गद्य-पद्य ग्रंथांची माहिती
- ३) मराठी भाषेचा महिमा वर्णन करणारे विविध संदर्भ
- ४) मराठी साहित्याला, साहित्यिकाला मिळणारा पुरस्कारांची माहिती
- ५) समाजसुधारकांचे कार्य, ग्रंथ, चळवळी या विषयीची माहिती
- ६) मराठीतील म्हणी, वाक्प्रचार, सुभाषिते यांचे आकलन-आस्वाद व मूल्यमापन
- ७) मराठीतील संत, पंत व तंत, कवी-कविता, कथा-कथाकार, कादंबरी-कादंबरीकार, नाटक-नाटककार, चरित्र आत्मचरित्रांची ओळख व माहिती
- ८) मराठी साहित्यिकांचे टोपण नावे अभ्यासणे
- ९) अभंगपंक्ती, ओवी, श्लोक, स्तोत्र, भजन, आरती व निवडक काव्यपंक्ती यांची ओळख व अभ्यास.

प्रकरण दुसरे

आकलन व सारांश लेखन

- १) उतारा काळजीपूर्वक दोन-तीन वेळा वाचा.
- २) लेखकाला या उताऱ्यातून नेमके काय सांगायचे आहे, ते समजून घ्या.
- ३) ज्या ओळीत प्रश्नांचे उत्तर आहे, ती ओळ तशीच्या तशी न लिहिता स्वतःच्या भाषेत लिहा.
- ४) उतारा कोणत्या लेखकाचा आहे, हे खाली दिलेले असेल, तरच लेखकाचे नाव लिहा. नाहीतर फक्त लेखकाने लेखकाच्या मते, असे लिहून प्रारंभ करा.
- ५) उत्तर आटोपशीर व सोप्या भाषेत लिहा.
- ६) प्रश्न वाचून त्याचे उत्तर शोधू नका. आधी पूर्ण उतारा वाचलेला असला पाहिजे.

सारांश-लेखन

- १) कशासाठी ?
- २) मर्मग्राही वाचनाची, आकलनाची सवय होण्यासाठी.
- ३) जाणलेल्या गोष्टी, मुद्दे कमीत-कमी शब्दांत नेमकेपणाने मांडण्यासाठी.
- ४) पुढील शिक्षणात मोठ मोठ्या ग्रंथांचे वाचन, आकलन आणि मर्मकथन साधण्यासाठी.

सारांश-लेखनाचा सराव कसा कराल ?

- १) उताऱ्याचे आकलन होईपर्यंत उतारा वाचा.
- २) दुसऱ्यांदा वाचा. तेव्हा महत्त्वाचे मुद्दे, शब्द अधोरेखित करा.
- ३) उताऱ्यातील उदाहरणे, उद्धरणे, पुनरावृत्ती टाळून लिहावे.
- ४) उताऱ्यातील वाक्ये जशीच्या तशी न लिहिता स्वतःच्या शब्दांत लिहा.
- ५) शब्दसंख्येकडे लक्ष द्या. शब्दसंख्या मूळ शब्दसंख्येच्या १/३ असावी.

प्रकरण तिसरे

पत्रलेखन

साधारणपणे पत्रलेखनाचे दोन प्रकार होतात.

अ) घरगुती पत्रे

आपले आई-वडील, भाऊ, बहीण, नातेवाईक आणि मित्र अशांना लिहावलेली पत्रे ही घरगुती किंवा कौटुंबिक पत्रे यामध्ये येतात. पत्रलेखकाचे त्या त्या व्यक्तीशी असलेले संबंध यानुसार त्या पत्राचा मायना आणि शेवट असतो.

घरगुती पत्राच्या प्रारंभी 'श्री' लिहितात. मात्र दुःखद बातमी असलेल्या पत्रात श्री लिहित नाहीत. प्रथम, पत्राच्या उजव्या कोपऱ्यात लिहिणाऱ्याचा पत्ता व दिनांक लिहितात. पत्रलेखन विषयानुरूप, मुद्देसूद असावे. पत्राची भाषा सोपी असावी. लेखनात नम्रता असावी. पत्राचा शेवट कौटुंबिक चौकशी यांनी करावा.

ब) घरगुती किंवा कौटुंबिक पत्राचा मायना

- १) आई / वडील- तीर्थरूप...
शि.सा.न.वि.वि.
- २) इतर मोठी माणसे- तीर्थस्वरूप
सा.न.वि.वि.
- ३) लहान भाऊ / बहीण- चिरंजीव
अनेक आशीर्वाद
- ४) मित्र-प्रिय मित्र
सप्रेम नमस्कार

क) व्यावसायिक किंवा व्यावहारिक पत्रे

या पत्राचे स्वरूप काहीसे निराळे असते. या पत्राच्या उजव्या कोपऱ्यात लिहिणाऱ्याचे संपूर्ण नाव, पत्ता, दिनांक लिहावा. पत्रलेखन मुद्देसूद, आटोपशीर, व्यावहारिक असावे.

- १) शिक्षक-प.पू.गुरुवर्य
सादर नमस्कार
- २) आदरणीय व्यक्ती- माननीय
स.न.वि.वि.
- ३) अधिकारी- सन्माननीय महाशय
स.न.वि.वि.

प्रकरण चौथे आवेदनपत्र

मळविण्यासाठी केलेल्या अर्जाला आवेदनपत्र म्हणतात. या अर्ज/पत्रात स्वतः विषयीची सर्व सुस्पष्टपणे द्यावी लागते. कोणत्या पदासाठी अर्ज करीत आहेत ते नमूद करणे आवश्यक असते.

पत्रात खालील गोष्टी लिहिणे आवश्यक असते.

1. उजव्या कोपऱ्यात अर्जदाराचा संपूर्ण नाव, पत्ता, तारीख लिहावी.

2. अर्ज पाठवायचा असतो त्या अधिकाऱ्याचे पदनाम, कचेरीचे, अथवा संस्थेचे नाव, संपूर्ण पत्ता व्हा. पत्राचा विषय लिहिणे आवश्यक असते.

3. अर्ज म्हणून जाहीरातीतील संपूर्ण आशय खालच्या ओळीत नमूद करावा.

4. 'होदय' असा मायना लिहावा.

5. अर्जाचा मजकूर लिहिल्यावर समारोप करताना, आपला विश्वासू असे लिहून स्वाक्षरी करावी व त्याखाली नाव लिहावे.

6. अर्जासोबत जोडलेल्या सहपत्रांची यादी लिहावी.

अहमदनगर जिल्हा मराठा विद्या प्रसारक समाजाचे
न्यू आर्ट्स, कॉमर्स अँड सायन्स कॉलेज, शेवगाव जि. अहमदनगर

इतिहास विभाग
मोडी लिपी वाचन व लेखन
प्रमाणपत्र कोर्स
अभ्यासक्रम

- मोडी लिपी स्वर व्यंजने मुळाक्षरे
- दोन मोडी लिपी जोडशब्द
- तीन मोडी शब्द
- तारीख काढणे
- अरबी अंक वार महिने
- वाक्य तयार करणे
- मोडी उतारा लेखन व वाचन



विभाग प्रमुख
इतिहास विभाग

न्यू आर्ट्स, कॉमर्स, अँड सायन्स कॉलेज
शेवगांव, जि. अहमदनगर



प्राचार्य

न्यू आर्ट्स, कॉमर्स अँड सायन्स कॉलेज
ता. शेवगांव, जि. अहमदनगर

Ahmednagar Jilha Maratha Vidya Prasarak Samaj's
NEW ARTS, COMMERCE & SCIENCE COLLEGE, SHEVGAON
Semester- I (Paper -I)

Course Title : Practical I

30 Credits:30 Hours

Practical 1 : Study Microscopic Fauna Of Freshwater Ecosystem.

Practical 2 : Estimation Of Total Hardness of Water.

Practical 3 : Estimation Of Dissolved Oxyegen (DO) in given water sample by Winkler's Method.

Practical 4 : Determination pH of water.

Practical 5 : Estimation Of Dissolved Carbon Dioxide in given water sample.

Practical 6 : Estimation of Chlorinity of water.

Reference Book

1. Advanced Practical Zoology, 2014, 3rd Edn., Jayanta Sinha & Arun Kumar Chatterjee, Piyali Chattopadhyay, Books and Allied (P) Ltd., Kolkata.

Ahmednagar Jilha Maratha Vidya Prasarak Samaj's
NEW ARTS, COMMERCE & SCIENCE COLLEGE, SHEVGAON

Semester- II (Paper -II)

Course Title : Practical II

30 Credits:30 Hours

Practical 1 : Introduction to Aquaculture.

Practical 2 : Identification of Fish Diseases and Parasites.

Practical 3 : Study Different types of crafts and gears in fishing (Models/ Figures/ Charts).

Practical 4 : Study Different types of tail fins in fishes.

Practical 5 : Identificaton of Freshwater fish with the help of characters and Identification Key.

Practical 6 : Study of Bioindicators of pollution with the help of insects, rotifers, algae, and diatoms.

Reference Book

1.Practical Zoology Vertebrate, 2014, 11th Edn., Dr. S. S. LAL, RASTOGI PUBLICATIONS,
'GANGOTRI', Meerut.

I. Basics in Aquaculture (3)

1. Introduction
2. Purpose of Aquaculture
3. Importance of Aquaculture
4. Scope in Aquaculture
5. Development of fish culture

II. Farming system (5)

1. Categories of farm type (Based on characteristics of the farm environment, Characteristics of the physical structure, Kind of cultured fish by species or group of series, Based on development stages of species)
2. Categories of fish farming system (Characteristics fish stock population, Characteristics feeds and feeding of fish, Management produce of techniques, Levels of input intensity)
3. Basic consideration in the selection of species for culture

III. Aquatic environment (6)

1. Introduction
2. Productivity and ecological bioenergetics (Fundamental steps operated in productivity, Biotic link)
3. Water quality and Soil condition of fish (Water, Depth, Temperature, Turbidity, Light, Chemical properties, The pH value, Alkalinity, Carbonate, Bicarbonate, Free carbon dioxide, Dissolved oxygen, Total hardness, Dissolved solids, Dissolved nitrogen and it's compound, Phosphorus, Redox potential, Trace element, Organic matter, Soil, pH, Organic carbon and C/N ratio, Calcium)

IV. Nutrient dynamics (6)

1. Biotic structure and dynamics
2. Plankton dynamics Vs Nutrient availability
3. Micro-organism and nutrient cycles [Bacterial community in ponds (Autotrophic bacteria, Heterotrophic bacteria, Role of micro-organism in nutrient recycling(Carbon cycle, Nitrogen cycle, Phosphorus cycle, Sulphur cycle, Iron & Manganese cycle)]
4. Management of soil and water for aquaculture (Nutrient status, Maintenance of pH value, Maintenance of dissolved oxygen level of water, Control of turbidity)

V. Aquatic Insects, Weeds & their control (5)

1. Introduction
2. Aquatic insects, Control of predatory insects
3. Aquatic weeds (Aquatic weeds, Emerged weeds, Submerged weeds, Marginal weeds, Filamentous weeds, Planktonic weeds)
4. Control measures (Manual methods & management, Mechanical method, chemical control method, Biological control method, control by interspecific competitions, control through utilisation)

VI. Fish Diseases and Fish health Management

(5)

1. Introduction
2. Major types of fish diseases (Infectious diseases, Invasive diseases)
3. Significance of fish diseases control
4. Principles of fish health management (Prevention of fish diseases, Vaccine)

Reference books

1. Freshwater Aquaculture, 2011, 3rd Edn., Dr. Rajendra Kumar Rath, Scientific Publishers, India.
2. Fish and Fisheries, 2010, 2nd Edn., Prof. KAMALESHWAR PANDEY & Dr. J. P. SHUKLA, Rastogi Publications, Meerut - 250 002 (INDIA).
3. Fisheries and Aquarium Keeping, 2018, Dr. Prashant V. Patil & Dr. A. M. Budrukkar, Chandralok Prakashan, Kanpur - 208 021 (INDIA).
4. Fish and Fisheries, Santosh Kumar & Manju Tembhre, New Central Book Agency (P) Ltd.

Ahmednagar Jilha Maratha Vidya Prasarak Samaj's
NEW ARTS, COMMERCE & SCIENCE COLLEGE, SHEVGAON

Semester- II (Paper -II)

Course Title: FRESH WATER AQUACULTURE

30 Credits: 30 Hours

I. Biology of cultivable fishes (5)

1. Cultivable freshwater fishes in India (Carps, Live fishes, Cat fishes, Freshwater prawns)
2. Biology of carps (Catla, Rohu, Mrigal, Silver carp, Grass carp, Common carp)
3. Biology of important air breathing fishes (, Channa marulius Channa striatus, Heteropneustes fossilis, Feather backs, Notopterus chitala, Clarius batrachus)
4. Biology of important catfishes
5. Important larvicidal fishes
6. Exotic food fishes in India

II. Fish food and feeding habits (5)

1. Introduction
2. Modifications due to different feeding habits (Gills, Pharyngeal teeth, Nasal bone, Intestine)
3. Factors influencing feeding (Temperature, pH value, Oxygen)
4. Reproduction
5. Living habit
6. Water temperature
7. Water quality
8. Significance of propagation (Site Selection for riverine seed collection, Gears used for seed collection, Behaviour of spawn – Food Level, Current and depth, Current direction, Temperature, Weather, Spawn associates and plankton)

III. Fish feed (6)

1. Introduction
2. Nutritional requirement of fish (Proteins, Carbohydrates, Lipids, Vitamins, Minerals, Bulk elements, Trace elements, Antibiotics, Hormones, Pigments)
3. Physiological approach to the nutritional bioenergetic in fishes (Energy value of feeds for fish, Conversion factor for determining energy content of food, Daily protein requirement)
4. Varieties of fish feeds (Plant feeds, Animal feeds, A nutritional factor in feed ingredients, Formulated feed, Feed identification)
5. Diet processing (Grinding, Mixing & homogenising, Steaming, Pelleting, Drying, Storing)
6. Management of feeding (Probiotics, Prebiotics, Immunostimulators, Types of immunostimulators and its advantages)
7. Nutritional diseases

IV. Construction and Maintenance of fish farm (5)

1. Selection of site (Topography, Soil, Water supply)
2. Lay out the fish pond [Types of pond: Spring water ponds, Rain water ponds, Flood plain ox-bow ponds, well water ponds, Water course ponds, Barrage ponds, Diversion ponds, Head pond, Hatching pit or ponds, Nursery ponds, Rearing ponds, Stocking ponds]
3. Arrangement of fish ponds (Rosary system, Parallel system)
4. Pond maintenance (. Control of aquatic vegetation, Restoration and improvement of pond bottom, Liming)
5. Pond fertilization (Pond fertilizers- Organic and Inorganic)
6. Organic manures (Advantages, Varieties of organic manure: Cattle manure, Faeces & urine of livestock, Poultry manure, Goat & Sheep manure, Night soil, Silkworm dregs, Green manure, Compost)
3. Varieties of inorganic fertilizers (Advantages; Phosphorus fertilizers, Potash fertilizers, Nitrogen fertilizers, Micronutrients)

V. Fishing Methods in India (5)

1. Marine Fishing Crafts and Gears
 - i. Crafts of the east coast (Coromandal type, Orissa and Ganjam type, Andhra type or Vishakhapatnam type, Boat catamaran, Raft, Masula boat, Miscellaneous types – Nauka, Dinghi, Tuticorin, Pattiya, Muthupet, Shoe-dhonic type)
 - ii. Crafts of the west coast (Dug out canoes, Plank- built canoes, Outrigger canoes, Built up boats)
 - iii. Marine fishery gears (Fixed or stationary nets, Bagnets and boat seines, Shore seine and inshore drag nets, Drift nets and gill nets, Cast nets, Trap nets, Dip net, Long line and hooks)
 - iv. Inland Fishing Crafts and Gears (Trap net, Handnet, Drag net, Fixed net, Angaling)
 - v. Unconventional fishing methods (Electrofishing, Light fishing)

VI. Economic importance of fishes (4)

1. Food Value
2. Food By-Products (Fish oil, Fish liver oil, Fish body oil, Fish meal, Fish manure, Fish hydrolysed protein. Isinglass, fish glue, Fish leather, Fish pearls, Fish soap, Fish insulin, Aesthetic value)
3. Ornamental fish production

Reference books

1. Freshwater Aquaculture, 2011, 3rd Edn., Dr. Rajendra Kumar Rath, Scientific Publishers, India.
2. Fish and Fisheries, 2010 , 2nd Edn., Prof. KAMALESHWAR PANDEY & Dr. J. P. SHUKLA, Rastogi Publications, Meerut - 250 002 (INDIA).
3. Fisheries and Aquarium Keeping, 2018, Dr. Prashant V. Patil & Dr. A. M. Budrukkar, Chandralok Prakashan, Kanpur - 208 021 (INDIA).
4. Fish and Fisheries, Santosh Kumar & Manju Tembhre, New Central Book Agency (P) Ltd. London.

Renewable Energy & it's Awareness Syllabus

Module 1) Basic concept of solar energy & it's application

- Energy conservation areas (6 lecture)
- Energy transmission and storage
- Plant wide energy optimization Model
- Solar energy & environment
- Energy conservation through controls
- Energy & sources of energy

Module 2) Wind Energy (6 lecture)

- Electrical energy conservation in building, lighting, heating, ventilating and air conditioning.
- Energy audit of combustion process
- Boilers
- Turbines
- pumps
- Wind plus diesel power
- Wind plus photovoltaic system

Module 3) Assembly & Maintenance (6 lecture)

- Solar charger
- Solar air heating & cooling system
- Solar Distillation
- Solar Pumping
- Solar cooking
- Solar dryer
- Solar Cooling & Refrigeration

- Solar energy pumps

Module 4) Biogas

(7 lecture)

- Biogas Plants : Types , Design , Constructional details & comparison
- Aerobic & anaerobic Process
- Factor affecting the design
- Insulating the gas plant
- Biogas application
- Introduction to gasifire
- Application of biogas in domestic industry & vehicles

Module 5) Case Study

(5 lecture)

- Analysis of home electricity utilization & reduce by using renewable energy sources & Discussion

Carrier Oriented Course

A Certificate Course in Spoken English

Syllabus for Spoken English

Unit 1: Grammar:

- A) Parts of Speech
- B) Tenses and Kinds of Sentences
- C) Sentence Structure
- D) Articles
- E) Prepositions
- F) Modal Auxiliaries
- G) Vocabulary:
 - i) Words often confused ii) Synonyms iii) Antonyms iv) Collocations

H) Word Formation:

- i) Prefixes and Suffixes ii) Borrowing iii) Coinage iv) Blending v) Clipping

I) Synthesis:

- i) Transformation of Sentences ii) Change the voice ii) Direct indirect Speech

Unit 2: Communication Skills:

A) Verbal

- i) Introducing yourself, introducing to others
- ii) Congratulating, expressing sympathy and offering condolence.
- iii) Making request and asking for Direction

iv) Interview

v) Group discussion

B) Non-verbal

- i) Dialogue Writing
- ii) Paragraph Writing

- iii) Essay Writing iv) Letter Writing v) Story Writing

Syllabus

DIGITAL MARKETING & WEB DESIGN		
Chapter 1	Introduction to Digital Marketing	No. Of Lectures
1.1	Introduction.	2
1.2	What is Digital Marketing ?	
1.3	DM Fundamentals	
1.4	Inbound Vs Outbound Marketing	
Chapter 2	Website Planning & Structure	
2.1	Website Language & Technology	2
2.2	Domains	
2.3	SEO Overview	
2.4	Website Auditing	
Chapter 3	Social Media Marketing	
3.1	Profile & Pages	2
3.2	Business Categories	
3.3	Facebook Page Custom URL	
Chapter 4	Google Ad wards	
4.1	Understanding Ad wards	2
4.2	Google Ad types	
4.3	Creating text Ads	
4.4	Video Making for YouTube	
4.5	E-mail Marketing	



Head of Department

Discipline – Science

Department – Department of Zoology

– 2018-19.

Certificate Course in Vermicomposting.

• **Syllabus**

Theory -180 Lectures

1. Soil – Definition .Constituents of Soil. Types of Soil.
2. ✓ Soil Formation - Factors reasonable for Soil Formation.
3. ✓ Soil Fertility - Aeration .Water holding Capacity . Percolation .
4. ✓ Fertilizers – Natural fertilizers. Chemical Fertilizers.
5. ✓ Pesticides – Natural Pesticides. Synthetic Pesticides
6. ✓ Pollution by Fertilizers and Pesticides.
7. ✓ Biofertilizers – Compost . Vermicompost .
8. ✓ Habit, Habitat ,Distribution of Earthworm.
9. ✓ General Morphological Features of Earthworm. Food of Earthworms . Locomotion. Burrowing
10. ✓ Earthworms and vermicomposting.

Practical – 120 Lectures

1. Different Types of Soils. ✓
2. Study of Habit, habitat and General Morphological structure of Earthworm . ✓
3. Factors influencing the Fertility of Soil ✓
4. Biofertilizers and their advantages. ✓

अहमदनगर जिल्हा मराठा विद्या प्रसारक समाज

न्यू आर्ट्स, कॉमर्स अँड सायन्स कॉलेज, शेवगाव जि. अहमदनगर

इतिहास विभाग

महात्मा गांधी आणि गांधीवाद

प्रमाणपत्र कोर्स

अभ्यासक्रम (4 Credits)

प्रकरण पहिले : महात्मा गांधीचा पूर्व परिचय

१. जन्म व बालपण
२. शिक्षण

प्रकरण दुसरे : साहित्यिक योगदान

१. हिंदू स्वराज
२. माझे सत्याचे प्रयोग
३. पंचायत राज

तिसरे प्रकरण : नीतीमुल्य : सत्याग्रह

१. सत्य
२. अहिंसा
३. बहिष्कार
४. हिजरत

प्रकरण चौथे : रामराज्य संकल्पना

१. स्वयंपूर्ण ग्राम
२. विश्वस्त संकल्पना
३. खादी ग्राम उद्योग
४. धर्म आणि ब्रम्हचर्य

New Arts Commerce and Science College Shevgaon
DEPARTMENT OF ECONOMICS
Certificate Course of Internet Banking

Syllabus

Duration: 30th Hours

UNIT -I

Electronic Banking: Traditional Banking vs. E-Banking –Facts of E-Banking –E-Banking transactions – truncated cheque and Electronic cheque -Models for E-banking- complete centralized solution-features CCS-Cluster approach-Hi tech. Bank with in Bank Advances of E-Banking- Constrains in E-learning.

UNIT-II

Online Banking: Introduction –concept and meaning-the electronic delivery channels- need for computerization-Automatic Teller Machine (ATM) at home-Electronic Fund Transfer (EFT)-uses – computerization in clearing houses- Telebanking- Banking on home computers – Electronic Money Transfer- uses of EMT

UNIT –III

Updating Bank saving accounts- Computer bank branches- Financial Terminals- (FTT)- E-Cheque-Magnetic Ink Character Recognition (MICR) and Cheque- Banking in India- procedure-programme-Components- How to go on net for Online Banking- advantage- Limitations.

UNIT-IV

E-Banking Security- Introduction need for security-Security concepts-Privacy –Survey. Findings on security-Attack-Cyber-crimes-Reasons for privacy- Tampering-Encryption –Meaning-The encryption Process-may appear as follows- Cryptogram-Cryptanalyst- cryptography-Types of Cipher systems –Code systems- Cryptography-Cipher-Decipher- Jumbling-Asymmetric-Crypto System-Data Encryption Standard (DES)

UNIT –v