

PROGRAMME GUIDE

DIPLOMA IN VALUE ADDED PRODUCTS FROM FRUITS AND VEGETABLES (DVAPFV)

**A COLLABORATIVE PROGRAMME WITH
THE MINISTRY OF THE FOOD PROCESSING
INDUSTRIES, GOVERNMENT OF INDIA**

YOU ARE GOING TO BE A DISTANCE LEARNER. TRY TO DEVELOP THE HABIT OF LEARNING THINGS BY WAY OF READING RELEVANT DOCUMENTS. LET THIS PROGRAMME GUIDE MAKE THE BEGINNING OF YOUR JOURNEY OF DISTANCE LEARNING.

This booklet contains relevant information in brief about the Programme on “Certificate in Water Harvesting and Management” (CWHM) and the entire admission and examination procedures.

RECOGNITION

- Indira Gandhi National Open University (IGNOU) is a NATIONAL OPEN UNIVERSITY established by an Act of Parliament in 1985 (Act No. 50 of 1985).
- It is the First Open University in the country to have been accredited with the highest A++ Grade by NAAC and also secured Rank 1st in NIRF-2024 in the ODL category.
- IGNOU has been exempted from the applicability of UGC (Open and Distance Learning Programme and Online Programme) Regulations, 2020 *vide* Letter No. F. No. 1-8/2019 (DEB-I) dated 9th August 2019 & F.No.2-/2019 (OL) dated 17th March 2020. (<http://ignou.ac.in/userfiles/Exemption%20from%20UGC%20regulations.pdf>)
- The Degrees/ Diplomas/ Certificates issued by IGNOU are recognised by all the member institutions of the Association of Indian Universities (AIU) and are at par with the corresponding Degrees/ Diplomas/ Certificates issued by all Indian Universities/ Deemed Universities/ Institutions etc.
- The UGC Notification No. F. 1-1/2020(DEB-I) dated 4th Sept. 2020 regarding recognition of Degrees and Certificate acquired through ODL mode states:
- **“22. Equivalence of qualification acquired through Conventional or Open and Distance Learning and Online modes.— Degrees at undergraduate and postgraduate levels in conformity with UGC notification on Specification of Degrees, 2014 and post graduate diplomas awarded through Open and Distance Learning mode and/or Online mode by Higher Educational Institutions, recognised by the Commission under these regulations, shall be treated as equivalent to the corresponding awards of the Degrees at undergraduate and postgraduate level and post graduate diplomas offered through conventional mode.”**
- All the Programmes are recognized by AICTE *vide* Letter No. F. No. North-West/2022-23/1-112783440263 dated 31-May 2022.

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Further information on the Indira Gandhi National Open University courses may be obtained from the University's office at Maidan Garhi, New Delhi-110 068.

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QR Codes of Some of the Useful Web Links



eGyankosh Online

(for Online Course Materials)



Re-Registration Online



iGRAM
(IGNOU Grievance control Room)



To Watch Live Telecast/
To listen live Broadcast



On-line Examination form



Assignments

Note: The above QR Codes can be scanned and open through and QR Code Scanner Application/App of your smart mobile phone.

1.0 INDIRA GANDHI NATIONAL OPEN UNIVERSITY (IGNOU)

The Indira Gandhi National Open University was established by an Act of Parliament in 1985 to achieve the following objectives:

- democratising higher education by taking it to the doorsteps of the learners,
- providing access to high-quality education to all those who seek it irrespective of age, region, religion and gender,
- offering need-based academic programmes by giving professional and vocational orientation to the courses, and
- promoting and developing distance education in India.

1.2 Prominent Features

IGNOU has certain unique features such as:

- National jurisdiction with an international presence.
- Flexible admission rules.
- The programmes are offered in compliance with NEP 2020 Guidelines.
- Individualised study: flexibility in terms of place, pace and duration of study.
- Use of the latest information and communication technologies.
- Nationwide student support services network.
- Cost-effective programmes.
- Modular approach to programmes.
- The programmes follow the multidisciplinary and inter-disciplinary approach.
- Resource sharing, collaboration and networking with conventional universities, open universities and other institutions/organisations.
- Socially and academically relevant programmes based on students' need analysis, and
- Convergence of open and conventional education systems.

1.3 Important Achievements

- First Open University in the Country to have been accredited with the highest A++ Grade by NAAC.
- Secured Rank 1st in NIRF-2024 in the Open and Distance Learning category.
- Emergence of IGNOU as the largest Open University in the world.
- Recognition as Centre of Excellence in Distance Education by the Commonwealth of Learning (1993).
- Award of Excellence for Distance Education Material by Commonwealth of Learning (1999).
- Regular educational broadcast with facility for live interaction.

- Launch 24-hour Educational Channel - Gyan Darshan. IGNOU is running Gyan Darshan channel and regular transmissions are done from the studios at the Electronic Media Production Centre (EMPC), IGNOU.
- IGNOU has been entrusted with the responsibility of National Coordinator for SWAYAM and SWAYAM PRABHA Project for four channels (Channel Nos. 11 to 16). These channels are broadcasting the recorded videos as well as live telecasting of IGNOU programmes on 24x7 basis.
- UNESCO declared IGNOU as largest institution of higher learning in the world (2010).
- Largest network of learning support systems.
- Declaration of Term-end result within 30 days.

1.4 The Schools of Studies

With a view to develop interdisciplinary programmes, the University operates through its Schools of Studies. Each School is headed by the Director who arranges to organise its academic programmes and courses in coordination with the school faculty and staff, and different academic, administrative and service divisions of the University. The emphasis is on providing a wide choice of courses at different levels.

The following Schools of Studies are in operation currently:

- School of Humanities (SOH)
- School of Social Sciences (SOSS)
- School of Sciences (SOS)
- School of Education (SOE)
- School of Continuing Education (SOCE)
- School of Engineering and Technology (SOET)
- School of Management Studies (SOMS)
- School of Health Sciences (SOHS)
- School of Computer and Information Sciences (SOCIS)
- **School of Agriculture (SOA)**
- School of Law (SOL)
- School of Journalism and New Media Studies (SOJNMS)
- School of Gender and Development Studies (SOGDS)
- School of Tourism and Hospitality Service Management (SOTHSM)
- School of Interdisciplinary and Trans-disciplinary Studies (SOITS)
- School of Social Work (SOSW)
- School of Vocational Education and Training (SOVET)

- School of Extension and Development Studies (SOEDS)
- School of Foreign Languages (SOFL)
- School of Translation Studies and Training (SOTST)
- School of Performing and Visual Arts (SOPVA)

1.5 Academic Programmes

The University offers Certificates, Diplomas, Advance Diplomas, Post Graduate Diplomas and Degrees, which are conventional as well as innovative. Most of these programmes have been developed after need-based survey for such programmes. They are launched with a view to fulfilling the learners' needs for:

- certification,
- improvement of skills,
- acquisition of professional qualifications,
- continuing education and professional development at the workplace,
- self-enrichment,
- diversification and updating of knowledge, and
- empowerment.

1.6 Modular Approach to Programmes

The Programmes offered by the University are in compliance to the National Education Policy 2020. The teaching-learning arrangements in IGNOU are highly flexible. With this objective in mind, the University has followed a modular approach to Programme development for many of its degree-level programmes. As per the University policy, programmes with a modular approach are designed keeping in mind the needs of the learners and offer flexibility in the combination of courses as well as methods. The learners have the choice to decide the pace of their learning and they have the option of course-wise registration for various programmes.

Under the modular approach, each course is allocated a certain credit weightage. A learner enrolled in a modular programme can exit the programme at designated points and obtain a certificate or diploma, depending on the number of credits completed. Alternately, depending on the number of credits earned, a learner with a Certificate level can complete a Diploma or a Degree.

1.7 Credit System

Defining Credit in ODL: The University follows the Credit System for most of its

programmes. Each credit in our system is equivalent to 30 hours of learner study comprising all learning activities (i.e., reading and comprehending the print material, listening to audio, watching video, attending counselling sessions, teleconference and writing assignment responses). Thus, a 4-credit course involves 120 hours of study and a 6-credit course involves 180 hours of study. This helps the learner to know the academic effort he/she has to put in, to successfully complete a course. Completion of an academic programme (Certificate or Diploma or Degree) requires successful completion of the assignments, practical, projects (if applicable) and the Term-End Examination as per the requirements of each course in a programme.

1.8 Student Support Services

In order to provide individualized support to its learners, the University has a large number of Learner Support Centres, spread across the country. These Learner Support Centres are coordinated by 67 Regional Centres and Recognised Regional Centres. At the Learner Support Centres, the learners interact with the Academic Counselors and other learners, refer to books in the Library, watch/listen to video/audio programmes and interact with the Coordinator on administrative and academic matters. The list of Regional Centres is given in this Prospectus. Support services are also provided through Work Centres, Programme Learner Support Centres, Skill Development Centres and Special Learner Support Centres. Online Programmes are delivered on the LMS Platform of the University. In case the number of students enrolled in a program is small, the University shall provide Technology Enabled Learner Support (TELS) through Gyan Darshan / Gyan Vani / Swayam Prabha/Web-based support.

1.9 Programme Delivery

The methodology of instruction in this University is different from that of the conventional Universities. The Open University system is more learner-oriented and the learner is an active participant in the pedagogical (teaching and learning) process. Most of the instructions are imparted through distance education methodology as per the requirement.

The University follows a multimedia approach for instruction, which comprises:

- a) **Self-Instructional Printed Material:** The printed study material (written in self-instructional style) for both theory and practical components of the programmes is provided to the learners in the form of a single print book and/or e-book, comprising

blocks and units or in the form of separate printed blocks for every course (on an average 1 block per credit). A block which comes in the form of a booklet usually comprises 3 to 5 units.

- b) **Audio-Visual Material Aids:** The learning package contains audio and video programmes that have been produced by the University for better clarification and enhancement of understanding of the course material given to the learners. A video programme is normally of 25-30 minutes duration. The Video content is available on eGyankosh (www.egyankosh.ac.in) – the digital learning repository of the University. **The video programmes are also telecast on the GyanDarshan and SWAYAM PRABHA channels. All GyanVani stations broadcast curriculum-based audio programmes as per the schedule that is notified in advance. In addition, some selected stations of All India Radio also broadcast audio programmes. Learners can confirm the dates for the programmes from their Learner Support Centres. The information is also provided through the university website.**
- c) **Academic Counselling Sessions:** Normally Academic counselling sessions are held as per schedule drawn by the Learner Support Centres. These are mostly held outside the regular working hours of the host institutions where the Learner Support Centres are located. **However, in case the number of students in a programme is small, face-to-face counselling shall not be organized. In such cases, the University shall provide Web Enabled Academic Support to the learners.**
- d) **Teleconferencing:** Live sessions are conducted via satellite through interactive GyanDarshan Channel and simultaneously webcast at <http://ignouonline.ac.in/> and Facebook Live sessions.
- e) **Interactive Radio-Counselling (IRC):** IRC is being broadcast by Gyan Vani stations to enable the students to interact with the faculty, academic counsellors and students support staff. The detailed schedule can be accessed at the IGNOU-EMPC website. The IRC is also available through the University's website <http://gd.ignouonline.ac.in/gyandhara/>. You can ask questions right from your home by telephone by availing the facility of the toll-free telephone number provided for this purpose or using the gyandhara link
- f) **Practicals /Project Work:** Some Programmes have practical/project component also depending upon the learning requirements. Practical sessions are held at designated institutions for which schedule is provided by the Learner Support Centres. Attendance at practical sessions is compulsory. For project work, comprehensive project guide, in the form of a booklet, is provided to the learner along with the study material.

1.10 GyanDarshan

GyanDarshan (GD) channel is a major milestone in the field of Educational Television in India. It is a joint venture of the Ministry of Human Resource Development (MHRD), Ministry of Information & Broadcasting (I&B Ministry), Prasar Bharati and IGNOU serving as the nodal agency. Launched in the year 2000, GD is a 24-hour educational channel, which offers the best of educational programmes covering a variety of subjects and catering to a wide range of viewers. These include pre-school, primary, secondary and higher secondary students, college/university students, youth seeking career opportunities, homemakers and working professionals. The software is pooled from various educational Institutions and Development Organisations. GD conducts two hours of live interactive sessions every day to build interactivity in the Open and Distance Learning (ODL) system. Teachers/Resource persons and IGNOU Regional Center functionaries interact for academic and administrative matters with students. Induction Programmes for new students and convocations for graduating students are conducted live through Teleconferencing every year.

GyanDarshan is also available on the webcast, thus extending the reach of IGNOU programmes to audiences world over. The GyanDarshan telecast is also beneficial for students of the formal education system and the viewers can access Gyan Darshan on IGNOU's website <http://gd.ignouonline.ac.in/gyandarshan/>. As GyanDarshan Channel is must carry channel as per the Government of India Gazette notification, a number of private DTH/Cable Operators carry GyanDarshan in their Bouquets. Gyan Darshan is now part of SWAYAM PRABHA and can be watched on SWAYAM PRABHA Channel no.14 (Open Universities and GyandDarshan).

1.11 GyanVani

GyanVani (GV) FM Radio was conceived in 2001 as a network of educational FM Radio Channels operating from various cities in the country. With an aim to enhance and supplement the teaching-learning process, each GV Station has a range of about 60 kms and covers an entire city/town including the adjoining rural areas. GyanVani serves as an ideal medium for niche audience addressing the local educational, developmental and socio-cultural requirements of the people. The flavour of the channel is by and large local and the medium is English, Hindi or language of the region. The overall content pertains to Primary and Secondary Education, Adult Education, Technical and Vocational Education, Higher Education, Distance Education and Extension Education etc. Interactive Radio Counselling (IRC) facility is being provided by GV Stations to enable students to interact with the faculty, academic counsellors and student support staff. The live phone-in programmes are popular components of the network. The programmes broadcast through each

stations include both pre-recorded and live content. click the link- (<http://gd.ignouonline.ac.in/gyandhara/>)

1.12 GyanDhara

GyanDhara is an internet audio counselling service offered by IGNOU. Students can listen to the live discussions by the teachers and experts on the topic of the day and interact with them through telephone, email and also chat mode. When live sessions are not on, GyanVani Delhi is made available on this platform. The GyanDhara streaming is available for internet users anywhere in the world. Important events broadcast by GV Delhi are also relayed by all GV stations using the GyanDhara feed. The Learners can access GyanDhara using the link <https://www.ignouonline.ac.in/gyandhara/>

1.13 SWAYAM PRABHA

SWAYAM PRABHA is an initiative of the Ministry of Education (MoE), Government of India to provide 40 High Quality Educational TV Channels through DTH (Director to Home) across the length and breadth of the country on 24x7 basis using GSAT 15 Satellite. Curriculum-based course content covering diverse disciplines are telecast through SWAYAM PRABHA and are provided by NPTEL, IITs, UGC, CEC and IGNOU with the objective of meeting the needs of lifelong learners in India and abroad. SWAYAM PRABHA channels are broadcasting the recorded videos as well as live telecasting of IGNOU programmes on 24x7 basis.

1.14 eGyanKosh

The IGNOU eGyanKosh (<http://egyankosh.ac.in/>) is a national digital repository of educational resources in higher education. It is available for the learners and teachers and public at large for free.

1.15 IGNOU e-Content Mobile App

IGNOU-e-Content Mobile App is an official mobile app of Indira Gandhi National Open University (IGNOU), New Delhi. This app is an ICT initiative of IGNOU to provide Digital Learning Environment to IGNOU learners and extending Technology Enhanced Learner Support Services to them. The aim of this initiative is to disseminate the digitised course material to IGNOU Learners. IGNOU learners can use this app to access their course material through their handheld devices such as Mobile Phones and Tablets.

1.16 International Students Residing in India

The foreign nationals are advised to visit the page of International Division of the University

(<http://ignou.ac.in/ignou/aboutignou/division/id/introduction>) for the programmes on offer for them; programme fee and other fees applicable for them. They may also contact International Division of the University at the Headquarters for more details

1.17 Library Services

The IGNOU library is the most resourceful information centre in the country in the field of distance education. The collection of printed and electronic resources is quite strong, with 1.5 lakh printed books at IGNOU Headquarters and 2.5 lakh printed books at libraries of RCs and LSCs.

- The University Library provides remote access to 8–10 online databases through the UGC e-Shodh Sindhu Consortium. Users can access over 7900+ e-journals and more than 1700 e-books (<http://www.ignou.ac.in/ignou/aboutignou/division/idd/EResources>) as well as millions of open-access resources in digital form.
- The holdings of the library collection and access to e-resources can be browsed and downloaded from their desktops through Web OPAC (<https://libraryopac.ignou.ac.in/>) and Integrated Search Engines.
- Library is a member of the Developing Library Network (DELNET) (<https://www.delnet.in/>) that provides various resource sharing services like browsing of Union Catalogues, Inter-Library Loan and Document Delivery from more than 7000 member libraries.
- IGNOU is also a member of ‘The Daisy Forum of India’ (DFI), which provides Sugamya Pustakalaya (<https://sugamyapustakalaya.org.in/welcomeLink.action>) facilitating access to more than 67,000 books to the blind, people with low vision, or people with any other print disability.
- IGNOU library uploads Ph.D/M.Phil theses on UGC INFLIBNET’s —Shodhganga Repository for digital preservation and ensuring continuous access to scholarly content.
- IGNOU library uses Drillbit software provided by UGC INFLIBNET to check the texts of Research papers/Theses/Dissertations for originality and protect it against potential plagiarism.
- Research Scholars can take library membership by paying refundable security deposit of 5000 for availing lending services.
- Students interested in remote access of e-resources should download the form from Link: <http://www.ignou.ac.in/ignou/aboutignou/division/idd/raf>, fill up the same and email to librarian@ignou.ac.in to facilitate access.

2.0 SCHOOL OF AGRICULTURE

The School of Agriculture (SOA), established in January 2005 at IGNOU, strives for a flagship role in turning the rural unemployed youth to first rate agricultural entrepreneurs and

agri-business managers of tomorrow. The SOA strives to address the need for education and knowledge management in agriculture for safe and sustainable resource utilization and nutritional food production. The School seeks to build the capacity of stakeholders in emerging issues in agriculture such as climate change and declining productivity through competency-based education and training. Academic, research and extension activities are undertaken with a mission to improve and sustain the productivity and quality of human life in rural areas.

The School follows a multimedia approach in programme delivery. It comprises self-learning printed course material, supporting audio-video programmes, face-to-face interaction with academic counsellors at learner support centres, assignments for assessment and feedback, telecast of video programmes on GyanDarshan, broadcast of Audio / Video programmes through GyanVani (Interactive Radio Counselling) and teleconferencing through Gyan Darshan, SWAYAM PRABHA, and DTH.

The programmes offered by the School are designed in modular format offering maximum flexibility to the learners including multiple exit points. In recent years the school has collaborated with various apex institutions to develop programmes catering to the needs of specific target groups.

Programs offered by the School of Agriculture are:

❖ **Master's degree**

- Master of Business Administration (Agribusiness Management) (MBAABM)
- Master of Science (Food Safety and Quality Management) (MSCFSQM)

❖ **PG Certificate/Diploma**

- Post-Graduate Diploma in Food Safety and Quality Management (PGDFSQM)
- Post Graduate Diploma in Agribusiness (PGDAB)
- Post Graduate Certificate in Agriculture Policy (PGCAP) – ODL and Online

❖ **UG Degree**

- Bachelor of Science (Food Safety & Quality Management) (BSCFFSQM)-FYUP

❖ **Diploma**

- Diploma in Value Added Products from Fruits and Vegetables (DVAPFV)
- Diploma in Dairy Technology (DDT)

- Diploma in Meat Technology (DMT)
- Diploma in Watershed Management (DWM)
- Diploma in Horticulture (DHORT)
- Diploma in Agricultural Cost Management (DACM)

❖ **Certificate Programmes**

- Certificate in Sericulture (CIS)
- Certificate in Water Harvesting and Management (CWHM)
- Certificate in Poultry Farming (CPF)
- Certificate in Bee Keeping (CIB)
- Certificate in Organic Farming (COF)

❖ **Awareness Programmes**

- Awareness Programme on Dairy Farming (APDF)

3.0 DIPLOMA IN VALUE ADDED PRODUCTS FROM FRUITS & VEGETABLES (DVAPFV)

The Diploma in Value Added Products from Fruits and Vegetables aims to develop competent human resource in the field of post harvest management of fruits and vegetables and production of value-added products from them. It intends to inculcate vocational and entrepreneurial skills to widen employment opportunities, particularly among rural youth and the disadvantaged sections of the society as well as self employment. It seeks to address the workforce requirements of the food processing industries and focuses on upgrading the knowledge and skills of existing workers. The programme caters to educational requirements of the horticulture farmers, food processors, skilled workers/technicians in the fruit processing industries, NGO functionaries/trainers, entrepreneurs, staff of Food Processing Training Centre (FPTC)/horticulture/post harvest/food processing departments of the states/central, rural educators, farmers, etc.

3.1 Programme Objectives

- To provide the knowledge & skills for minimizing the post-harvest losses and production of value added food products;
- To develop human resource for post harvest management and for primary processing of fruits and vegetables produce at the production

areas/ clusters;

- To develop youth as young entrepreneurs for self employment through food processing and associated activities; and
- To impart knowledge and technical proficiency in:
 - Procurement of raw materials,
 - Preparation of value added products,
 - Prevention of losses in fresh and processed horticulture produce,
 - Marketing and economical aspects,
 - Managing small and medium enterprises.

3.2 Target Group

Rural Youth, Senior Secondary pass-outs. Skilled workers in food industries, Small and medium entrepreneurs involved in post-harvest management & processing of fruits and vegetables, and Farmers & members Fruit Growers Cooperatives.

3.3 Salient Features of the Programme

The salient features of this programme are as follows:

- Focus on operational areas of post-harvest management of fruits and vegetables.
- Courses designed and prepared by professional expert in the field of post harvest technology.
- Student centered multimedia learning materials.
- Strong students support services.
- Opportunity to interact with leading experts through the teleconferencing.

3.4 Eligibility

10+2 Pass-outs.

3.5 Duration

The minimum duration of the programme is 1 year and the maximum duration is 3 years.

3.6 Medium of Instruction

The medium of Instruction for this programme is English and Hindi.

3.7 Programme Structure

In order to be eligible for the award of the Diploma, a student has to complete the following 8 Courses (integrated with practical) equivalent to 32 credits:

Sl. No.	Course Code	Title of the Course	Credits
1.	BPVI-001	Food Fundamentals	4 Credits
2.	BPVI-002	Principles of Post Harvest Management of Fruits and Vegetables	4 Credits
3.	BPVI-003	Food Chemistry and Physiology	4 Credits
4.	BPVI-004	Food Processing and Engineering – I	4 Credits
5.	BPVI-005	Food Microbiology	4 Credits
6.	BPVI-006	Food Processing and Engineering – II	4 Credits
7.	BPVI-007	Food Quality Testing and Evaluation	4 Credits
8.	BPVI-008	Entrepreneurship and Marketing	4 Credits

SYLLABUS OF THE PROGRAMME

Code: BPVI-001

COURSE I – FOOD FUNDAMENTALS

S. No.	Block & Unit
Block 1	Introduction to Food Science & Technology
Unit 1	Introduction to Food Science
Unit 2	Food Processing Industries
Unit 3	Food Laws and Associated Bodies
Block 2	Characteristics of Edible Agriculture Produce
Unit 4	Food Grains, Oilseeds and Pulses
Unit 5	Fruits and Vegetables
Unit 6	Dairy, Poultry, Meat, Fisheries and Marine Products
Unit 7	Commercial Crops (Plantation Crops, spices), Medicinal & Aromatic Plants
Block 3	Nutrition
Unit 8	Nutritional Aspects
Unit 9	Food for Growth and Repair
Unit 10	Loss of food Value in Fresh Produce and Processed Products
Unit 11	Anti-nutritional Factors, Food Contaminants and Toxic Elements

Block 4	Quality Aspects
Unit 12	Quality Characteristics
Unit 13	Deteriorative Factors and their Control
Unit 14	Quality Assurance, Regulation, Codes, Grades & Standards

PRACTICAL MANUAL

Experiment No.	Name of Experiment
Experiment 1	Equilibrium Moisture Content (EMC)
Experiment 2	Bulk Density
Experiment 3	True Density
Experiment 4	Measurement of Fat/Oil
Experiment 5	Crude Protein (Total Protein)
Experiment 6	Total Carbohydrates
Experiment 7	Free Fatty Acids (FFA)

Code: BPVI-002 COURSE II – PRINCIPLES OF POST HARVEST OF MANAGEMENT FRUITS AND VEGETABLES

S.No.	Block & Unit
Block 1	Need & Importance
Unit 1	Importance of Post Harvest Management
Unit 2	Causes of Pre and Post Harvest Losses
Unit 3	Maturity Indices & Harvesting Parameters
Unit 4	Packaging of Fruits and Vegetables
Unit 5	Transportation of Fresh Produce & Control of Losses
Block 2	Post Harvest Treatments
Unit 6	Cleaning, Selection, Sorting, Grading and Packaging
Unit 7	Treatments: Pre-Cooling, Curing, Inhibition of Sprouting and Fungicide Application and Ripening
Block 3	Storage and Marketing
Unit 8	Factors Affecting Storage Life
Unit 9	Storage Structures
Unit 10	Market and Market Mechanization
Unit 11	Market Information System
Block 4	Processing and Preservation

Unit 12	Primary Processing/ Minimal Processing
Unit 13	Heat Application
Unit 14	Drying and Dehydration
Unit 15	Freezing
Unit 16	Chemical

PRACTICAL MANUAL

Experiment No.	Name of Experiment
Experiment 1	Assessment of Post Harvest Losses at Different Levels (From Field to Consumers)
Experiment 2	Demonstration of Value-Addition - By Post Harvest Handling and Packaging
Experiment 3	On Farm Storage - Pusa Zero Energy Cool Chamber
Experiment 4	Solar Drying of Fruits and Vegetables
Experiment 5	Primary and Minimal Processing
Experiment 6	Extraction and Preservation of Pulps and Juices
Experiment 7	Preparation of Whole Tomato Concentrate
Experiment 8	Utilization of Waste Generated during Fresh Handling and Processing

Code: BPVI-003

COURSE III – FOOD CHEMISTRY AND PHYSIOLOGY

S.No	Block & Unit
Block 1	Introduction
Unit 1	An Overview of Food Chemistry
Unit 2	An Overview of Food Physiology
Block 2	Food Constituents
Unit 3	Food Constituents – Carbohydrates and Lipids
Unit 4	Food Constituents – Proteins, Enzymes and Water
Unit 5	Vitamins and Minerals
Unit 6	Food Additives
Block 3	Food Physiology
Unit 7	Ethylene Liberation and its Control
Unit 8	Growth, Maturation and Senescence

Unit 9	Physiological Disorder
Block 4	Food Fermentation
Unit 10	Fermentation, Method of Fermentation and Industrial Significance
Unit 11	Fruit and Vegetable Based Fermentations and their Commercial Products
Unit 12	Fruit Based Alcoholic Beverages
Unit 13	Technological Aspects of Industrial Production of Alcoholic Beverages and Related Products

PRACTICAL MANUAL

Experiment No.	Name of Experiment
Experiment 1	Determination of Acidity and pH
Experiment 2	Determination of Moisture
Experiment 3	Determination of Ash and its Characteristics
Experiment 4	Determination of Reducing Sugars, Total Reducing Sugars, Sucrose and Starch
Experiment 5	Determination of Crude Fiber
Experiment 6	Determination of Alcohol by Specific Gravity Method
Experiment 7	Detection and Determination of Synthetic Colours

Code: BPVI-004

COURSE IV – FOOD PROCESSING AND ENGINEERING - I

S. No.	Blocks & Units
Block 1	Introduction
Unit 1	Unit Operations
Unit 2	Moisture Contents & Equilibrium Moisture Contents
Unit 3	Cleaning & Grading
Unit 4	Storage
Block 2	Unit Operations: Milling, Size Reduction; Material Handling & Transportation
Unit 5	Size Reduction
Unit 6	Milling
Unit 7	Material Handling
Unit 8	Transportation and Packaging
Block 3	Value Added Products from Fruits & Vegetables

Unit 9	Juice and Beverages
Unit 10	Jams, Jellies, Marmalade and Other Sugar-based Products
Unit 11	Pickles, Chutney & Tomato Products
Unit 12	Dehydrated Products
Block 4	Plant Layout, Equipment and Mechanisation
Unit 13	Site Selection and Layout
Unit 14	Equipment & Machinery
Unit 15	Plant Sanitation and Effluent Treatment

PRACTICAL MANUAL

Experiment No.	Name of Experiment
Experiment 1	Preparation of Fruit Beverages – Squash, Cordial, RTS Beverage, Fruit Nectar and Sharbets
Experiment 2	Production of Fruit Jam, Jelly, Marmalade, Fruit Butters, Confectionary and Cheese, Preserve and Candies
Experiment 3	Preparation of Pickles and Chutneys, Relishes and Sauces
Experiment 4	Production of Tomato Juice, Ketchup, Puree and Paste
Experiment 5	Drying and Dehydration of Fruits and Vegetables
Experiment 6	Repair and Maintenance of Machines

Code: BPVI-005

COURSE V – FOOD MICROBIOLOGY

S. No.	Block & Units
Block 1	Introduction
Unit 1	Classification of Microorganisms Important in the Food Industry: Bacteria, Yeasts and Mold
Unit 2	Factors Affecting Growth and Inhibition of Microorganisms in Food
Unit 3	Industrially Important Yeast, Mold and Bacteria
Unit 4	Spoilage and Associated Chemical/Physical Changes in Food
Block 2	Controlling Microorganisms
Unit 5	Concepts, Determination of Process Lethality Requirements and Importance
Unit 6	Thermal Control of Microorganisms

Unit 7	Drying
Unit 8	Chemicals
Block 3	Food Poisoning
Unit 9	Food Borne Diseases
Unit 10	Food Intoxications
Unit 11	Food Infections
Block 4	Safe Chemicals and Microbial Limits for Different Foods
Unit 12	Chemical
Unit 13	Microbial

PRACTICAL MANUAL

Experiment No.	Name of Experiment
Experiment 1	Preparation of Media
Experiment 2	Microscopic Staining Techniques
Experiment 3	Culturing and Identification of Microorganisms
Experiment 4	Aseptic Culture Technique
Experiment 5	Visual and Microscopic Examination of Raw and Processed Product
Experiment 6	Enumeration of Bacteria by Dilution and Plating

Code: BPVI-006

COURSE VI – FOOD PROCESSING AND ENGINEERING II

S. No.	Blocks & Units
Block 1	Food Preservation by Application of Heat
Unit 1	Principles of Heat & Mass Transfer
Unit 2	Heat Application
Unit 3	Canning of Fruits and Vegetables
Block 2	Food Preservation through Water Removal
Unit 4	Forms of Water in Foods, Sorption and Desorption of Water in Foods and Water Activity
Unit 5	Drying, Dehydration and Evaporation
Block 3	Food Preservation through Temperature Reduction, Atmospheric Control and Irradiation

Unit 6	Chilling
Unit 7	Controlled and Modified Atmosphere Storage
Unit 8	Food Irradiation
Block 4	Product Utilization
Unit 9	Types of By-Products
Unit 10	Utilization of Fruits and Vegetables Processing Wastes for Food, Feed, Fuel and Industrial Products
Unit 11	Food Fortification
Block 5	Food Packaging
Unit 12	Need & Importance
Unit 13	Packaging Materials
Unit 14	Packaging Process & Machinery

PRACTICAL MANUAL

Experiment No.	Name of Experiment
Experiment 1	Adequacy of Blanching of Fruits/Vegetables
Experiment 2	Canning of Fruits and Vegetables
Experiment 3	Cut-out Analysis of Canned Product
Experiment 4	Testing of Flexible Packaging Material
Experiment 5	Preparation of Fruit-based Carbonated Drinks

Code: BPVI-007 COURSE VII – FOOD QUALITY TESTING AND EVALUATION

S. No.	Blocks & Units
Block 1	Quality
Unit 1	Definition and Importance of Food Quality
Unit 2	Quality Standardization
Unit 3	Food Safety Management
Block 2	Testing and Evaluation
Unit 4	Physical Methods
Unit 5	Chemical & Microbiological Methods
Unit 6	Sensory Analysis of Foods/ Beverages
Block 3	Laboratory Equipment and Instrumentation
Unit 7	Analytical Balance, pH Meter & Chromatography

Unit 8	Analytical Instrumentation Based on Electromagnetic Radiation
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PRACTICAL MANUAL

Experiment No.	Name of Experiment
Experiment 1	Determination of Ascorbic Acid by Titrimetric and Colorimetric Methods
Experiment 2	Determination of Sodium Chloride
Experiment 3	Determination of Total Carotenoids and Beta-Carotene by Colorimetric Method
Experiment 4	Determination of Sulphur Dioxide
Experiment 5	Estimation of Benzoic Acid
Experiment 6	Determination of Hardness of Water
Experiment 7	Estimation of Residual Chlorine in Water
Experiment 8	Determination of Total Soluble Solids (⁰ BRIX)
Experiment 9	Contaminants: Tin Content in Canned Foods
Experiment 10	Sensory Evaluation of Food Products - Hedonic Rating Test

Code: BPVI-008

COURSE VIII – ENTREPRENEURSHIP AND MARKETING

S. No.	Blocks & Units
Block 1	ENTREPRENEUR AND ENTREPRENEURSHIP
Unit 1	Being an Entrepreneur-what does it Involve
Unit 2	Entrepreneurial Skills
Unit 3	Developing Entrepreneurial Skill
Block 2	SETTING UP AN ENTERPRISE
Unit 4	Business Idea-How to get it?
Unit 5	Market Assessment-What is a Market?
Unit 6	What does Marketing Involve, How to Assess the Market for your Business Idea.
Unit 7	Analysing the Competitive Situation
Block 3	PLANNING FOR THE ENTERPRISE
Unit 8	Preparation of the Business Plan
Unit 9	Arranging the Financing
Unit 10	Understanding the Components for Marketing Mix
Block 4	MARKETING MANAGEMENT OF THE ENTERPRISE
Unit 11	Production Consideration
Unit 12	Setting the Price-Understanding Costs, pricing fundamentals, Administering the Price
Unit 13	Developing and Managing Distribution
Unit 14	Understanding the Managing Promotion

Block 5	ASSESSING PERFORMANCE
Unit 15	Performance Measurement and Control
Unit 16	Managing Growth
Unit 17	International Markets-Scope for Small Enterprises.

PRACTICAL MANUAL

Exercise No.	Name of Exercise
Exercise 1	Preparation of Cost of Project and Means of Finance
Exercise 2	Preparation of Depreciation Schedule
Exercise 3	Preparation of Statement of Production, Raw Material Consumed and Gross Sales
Exercise 4	Calculations of Working Capital
Exercise 5	Preparation of Profitability Statement
Exercise 6	Preparation of Taxation Statement
Exercise 7	Preparation of Balance Sheet
Exercise 8	Preparation of Break Even Analysis Statement
Exercise 9	Preparation of Statement of Power Calculation
Exercise 10	Preparation of Statement of Analytical and Comparative Ratios

3.8 Admission Process

The Admission Forms can be submitted online through the online admission portal at <https://ignouadmission.samarth.edu.in/> by the Indian Student. Foreign student residing in other countries can also join the online programmes and can submit their admission form at <https://ignouforeigniop.samarth.edu.in/>.

The prospective learners are required to create their user ID and password for logging in to the system and upload the required documents along with the submission of the Admission Form. There is no need to send the printed copy of the Admission Form to the Regional Centre. The programme fee can be paid online using Payment Gateway through net banking, debit/credit card or UPI. Once the admission form is submitted online, the students can track the progress of their admission. A message is sent on the mobile number and email ID registered with the System once admission is confirmed. In case of any discrepancy in the Admission Form, the prospective students are advised to remove the discrepancy within a stipulated time. Failing to do so will lead to the rejection of the admission form.

After going through the above-given eligibility conditions, a student can register for this programme. For any admission-related queries kindly email to: csrc@ignou.ac.in.

3.9 Programme Fee

- Rs. 15,200/- for full programme plus Registration fee of Rs.300/-

Note: The Programme fees and the registration fee shall be applicable as mentioned in the University admission portal.

3.10 Evaluation

The system of evaluation in IGNOU is different from that of conventional universities. In Indira Gandhi National Open University, every course is considered as an independent unit. Hence, every course will be evaluated separately and for all purposes each course will be considered as a separate entity. There are eight courses in “**Diploma in Value Added Products from Fruits and Vegetables (DVAPFV)**” Programme. For successful completion of the programme, you will have to secure pass marks in all the eight courses. The assessment system of the programme is given below:

Weightage to Theory and Practical Evaluation:

The weightage to theory and practical is 50% each for all the eight integrated (Theory+Practicals) courses, i.e.- BPVI-001 to BPVI-008.

i) Theory:

For theory, the weightage to the term-end examination will be 80% and the weightage to the continuous assessment will be 20%. There will be one assignment for each course i.e. total four assignments for the programme. Each assignment will be of 50 marks which ultimately will be converted to have weightage of 20% of theory.

Assignments have to be submitted to the coordinator of the programme study centre/Learner Support Centre and instructions for formatting the assignment and the date of submission of the same are given in the assignment booklet.

The theory term-end examination for each course will be of 50 marks. The marks obtained by the students in the term-end examination will be converted to have weightage of 80% (on theory basis).

ii) Practical

The practical evaluation is divided under two components: (i) guided experiments and (ii) unguided experiments. The guided experiments shall be performed during the counselling sessions under the guidance of the counsellors. The unguided experiment shall be undertaken by the students in the last session. For unguided experiment, student shall not be provided any guidance while performing the experiment(s).

Both the components will be evaluated. The weightage of 70% will be assigned to guided experiments and 30% weightage is for unguided experiments. Each experiment performed by the student would be evaluated. The student performance would be assessed by the counsellors covering various aspects like manipulative skills, observation and their understanding of the basic concepts related to the experiment.

Weightage: Practical

Component	Weightage
Guided Experiments	70%
Un-guided Experiments	30%
Total	100 %

Pass Percentage for Theory and Practical Examination

The students will have to secure minimum 40% marks separately in all the components of the course- theory (term-end examination and continuous assessment i.e. assignment), practical on individual basis and as well as on aggregate basis for the course i.e. (i) term-end examination; (ii) assignment; (iii) practical (total marks obtained in guided and unguided experiments) and (iv) on aggregate basis.

Modalities for Theory and Practical Examination Criteria

Theory: Term-End Examination: 80% and Continuous Assessment: 20%

The examination shall be held twice in a year i.e. the month of June and December.

Practical: Term-Guided Experiments: 70% and Unguided Experiments: 30%

(i) Evaluation- Guided Experiments

The students will be evaluated for performing the experiments by the counsellor. For a particular experiment, split up of marks may be broadly on the following lines:

S. No	Component	Weightage
a)	Actual performance of experiment and observation (psychomotor and manipulative skills)	40%
b)	Reporting (Problem solving skills)	20%
c)	Viva-voce	20%
d)	Record	20%

(ii) Evaluation of Assigned Unguided Experiments

It will be conducted in the last session of the laboratory work. The student should not be provided any guidance while performing this experiment. For this experiment, 30% marks

are allotted, split up of marks may be broadly on the following lines:

S. No	Component	Weightage
a)	Actual performance of experiment and observation (psychomotor and manipulative skills)	50%
b)	Reporting (Problem solving skills)	25%
c)	Viva-voce	25%

There shall be one internal and one external examiner. The internal examiner will be from the same Learner Support Centre or Programme study centre and the external examiner will be the counsellor of IGNOU Learner Support Centre or Programme Study Centre of other District/State. The course-writer/faculty members of SOA/editors could also be act as external examiners.

a) Preparation of Consolidated Award List

The consolidated award list of all students shall be prepared by the programme study centre/ Learner Support Centre. This award list shall be sent to the concerned Regional Centre within seven days after completion of the practical counselling session.

b) Participation and Attendance for Practical

Practical are essential components of the programme. For successful completion of the Programme, a participant is required to have a minimum of 75% attendance in the practical sessions at Programme Study Centre. A student will not be eligible to appear in Term-End examination if the percentage of attendance in practical session (Programme Study Centre) falls below 75%.

c) Pass Percentage for the Programme

The students will have to secure 40% marks in all the courses on an individual basis and on an aggregate basis in all eight courses for the award of the programme degree.

d) Result and Certification

The final certification of the Certificate shall be made on a five-point scale and grade point average as approved by the university as follows:

Letter Grade	Point Grade	Range	% of Marks	Division
A	5	4.50 and above	80 and above	1 st Division with Dist.
B	4	3.50 to 4.49	60 to 79.9	1 st Division
C	3	2.50 to 3.49	50 to 59.9	2 nd Division
D	2	1.50 to 2.49	40 to 49.9	Pass
E	1	0 to 1.49	Below 40	Fail

e) Term-End Examination and Payment of Examination Fee

The University conducts Term-end Examination (TEE) twice a year in the months of June & December.

A learner is permitted to appear in TEE subject to the following conditions:

1. Registration for the courses is valid and not time barred.
2. Required number of assignments in the courses have been submitted by the due date wherever applicable.
3. Minimum time to pursue these courses as per the provision of the programme has been completed.
4. Examination fee for all the courses the learner is appearing in the examination has been paid.
5. You should pursue the prescribed course.
6. You should complete 75% of attendance is practical contact hours
7. You should submit the examination form before stipulated date.

In the case of non-compliance of any of the above conditions, the result of all such courses is liable to be withheld by the University.

Applying for Term-end Examination

The learners are required to fill in the Examination form to appear in the TEE each time i.e., for every exam (June/ December) a learner has to apply a fresh. The Examination Forms are accepted online only as per the schedule available on the IGNOU website (<https://exam.ignou.ac.in/>) from time to time.

Examination Fees and Mode of Payment (For dates of filling exam form, kindly visit the IGNOU website)

Examination Fees	Mode of Payment
Term-End Examination • @ 200 per theory course (without late fee) • Rs. 200/- per course. (Theory courses and practical/lab courses) Rs. 200/- per course with Late fee of Rs.1100/-	Credit Card/Debit Card/Net Banking
Practical Fees • Up to 4 Credits Rs. 300/- Per course • Above 4 Credits Rs. 500/- per course	

NOTE:

- The University reserves the right to reschedule/cancel examinations/papers at any time in all the Examination Centre across the Country or in any particular Examination Centre/ State due to any exigency or any other reasons.
- Students registered for appearing in Practical/Lab courses including BLIS Programme are advised to contact their Regional Centre for Venue and schedule of exams.
- Examination fee will be as per the University policy. Please check the actual examination fees on the University website at the time of examination form filling.
- Examination fee once paid is neither refundable nor adjustable even if the learner fails to appear in the examination.

Hall Ticket for Term End Examination

No hall ticket shall be dispatched to the examinees. Hall Tickets of all examinees are uploaded on the University Website (www.ignou.ac.in) 7-10 days before the commencement of the Term End Examinations. Therefore, learners are advised to visit the IGNOU website for updates.

Students are advised to take the printout of the Hall Ticket from the University website after entering the enrolment number and name of the programme of study and report at the examination centre along with the Identity Card issued by the University. Without a valid IGNOU Student ID Card issued by the University, examinees will not be permitted to appear in the examination.

Always remember your Enrolment Number is your Roll Number for the term-end-examination (theory paper). Please exercise enough care in writing it correctly. Any mistake in writing the Roll Number will lead to the non-declaration of the result.

If you do not get the Hall Ticket, check the list of students registered for the examination at the Examination Centre or on the IGNOU website www.ignou.ac.in. If your name is on the

list, you shall be permitted to appear at the examination by showing your Identity Card (Student Card)/downloaded Hall Ticket to the Examination Centre Superintendent.

Declaration of Results

- Although all efforts are made to declare the result in time.
- Due to unforeseen/unavoidable reasons, if the results of the last examination are not declared before the commencement of the next examination. You are, therefore, advised to fill up the term-end examination form for the next term-end examination without waiting for the result of the previous term-end examination.
- Always quote your name, Enrollment Number, name of the programme and complete address for any correspondence with the University (including the Regional Centre and Learner Support Centre or Programme Study Centre). In the absence of such details, we may not be able to attend to your problems.
- No student is allowed to re-appear in an examination or re-submit assignment responses to improve the marks/grade after completing it.

Early Declaration of Results

The University has the provision of early declaration of term-end examination results of theory courses. The application for early declaration of results shall be entertained only if you have been selected for any post or applied for further studies, wherein a mark sheet/certificate for qualifying examination is required to be submitted to the institution by a particular date, which may be before the date of declaration of the University results. You must compulsorily submit documentary evidence (proof) in support of the reason for the early declaration of your result.

It may be noted that early declaration of results is allowed only in respect of theory courses. This facility is not applicable for practical/lab courses, projects, workshops, assignments, seminars, etc. The application for early declaration of results shall be entertained for final year courses or a maximum of four backlog courses only. The prescribed fee shall be paid for early result declaration. Application form along with the required amount of fee must be submitted to the Registrar, Student Evaluation Division (SED), IGNOU, Maidan Garhi, New Delhi-110068 before the date of the commencement of term-end examination i.e., before 1st June and 1st December, respectively. The link for Early Declaration of Results is placed in this book.

Re-evaluation of Answer Script(s)

The students who are not satisfied with the marks/grades secured them in the Term-end Examination can apply for re-evaluation within 40 days from the date of result declaration i.e., the date on which the results are made available on the University website on payment of the prescribed fee as per the prescribed application form available on the University website. The better of the two scores of original marks/grades and re-evaluated marks/grades will be considered and the revised marks/ grades shall be incorporated into the student's records, if applicable. Re-evaluation is not permissible for Projects, Practicals, Assignments and Seminars, etc.

Issue of Official Transcript

The students may also obtain an 'Official Transcript' for submission to the Overseas or Indian Institutes/ Universities on request. They may apply in the prescribed form by paying the requisite fee.

A sample prescribed application form with rules and regulations in detail for this purpose is given in the Common Prospectus and also made available at on the University's website www.ignou.ac.in.

Photocopy of the Evaluated Answer Script

The students may obtain a photocopy of the evaluated answer scripts for the term-end examination on request. They may apply through online portal <https://onlineservices.ignou.ac.in/reevaluation/> within 30 days from the date of declaration of results.

4.0 UNIVERSITY RULES

The University reserves the right to change the rules from time to time. However, latest rules will be applicable to all the students irrespective of the year of the registration.

4.1 Validity of Admission

Learners offered admission have to join on or before the due dates specified by the University. In case they want to seek admission for the next session, they will have to

apply afresh and go through the admission process again.

4.2 Re-Registration

Re-registration means registration in the next semester/year of a programme, wherever applicable. Learners are advised to submit the Re-Registration (RR) forms online on the web portal www.ignou.ac.in as per schedule being notified by the University from time to time, irrespective of the fact that whether the learners appeared in the examination or not or whether they are passed or not in the course(s) registered in the current academic session.

4.3 Additional time for Learners with Disability

- (a) Learners with disability of 40% or more are given an additional 2 (two) years beyond the maximum duration prescribed for all academic programmes.
- (b) Learners with disability seeking benefits of the aforesaid facility should submit the Disability Certificate issued by the competent authority at the Regional Centre concerned, which, in turn will verify it, make entry in the database and transmit the data to SRD for updating in the Master records.

4.4 Reservation for Scheduled Castes and Scheduled Tribes, non-creamy layer of OBC, EW) for admission in Central Educational Institutions

The University provides reservation of seats for Scheduled Castes and Scheduled Tribes, non-creamy layer of OBC, Economically Weaker Sections, (as notified by MHRD vide OM 12-4/019-U1 dated January 2019), War Widows, Kashmiri Migrants and Physically Handicapped learners, as per the Government of India rules, for admission to its programmes in which there are limited number of seats and admission is through a merit list. However, submission of forged certificate under any category shall make the student liable not only for cancellation of admission but also legal action as per Government of India rules.

Ministry of Human Resource Development, Department of Higher Education, Govt. of India, vide their Office Memorandum F.No. 12-4/2019-UI, dated 17th January 2019, on the subject cited above, has conveyed that in accordance with the provisions of the Constitution (One Hundred and Third Amendment) Act 2019, and in reference of Ministry of Social Justice and Empowerment vide OM No. 20013/01/2018-BC-II dated 17th January 2019, enabling provision of reservation for the Economically Weaker Sections (EWSs) who are not covered under the existing scheme of reservations for the Scheduled Castes, the Scheduled Tribes and

the Socially and Educationally backward Classes, it has been decided to provide reservation in admission to educational Institutions subject to a maximum of ten per cent of the total seats in each category. The provision of reservations to the Economically Weaker Sections shall be in accordance with the directions contained in the OM No. 20013/01/2018-8C-11 dated 17th January 2019 of the Ministry of Social Justice & Empowerment subject to the condition mentioned in the Office Memorandum of MHRD

Accordingly, the reservations shall be provided to EWSs for admission in the University from the academic year 2019-20 onwards beginning the academic session in July 2019. The reservation shall be applicable only in Programmes having seat restrictions.

4.5 Scholarships

The learners enrolled in IGNOU are eligible for Government of India Scholarships. They are advised visit the National Scholarship Portal of the Government of India <https://scholarships.gov.in/> and submit their application online. For further details students may contact at the headquarters, Student Service Centre can be contacted for details.

Students belonging to the Scheduled Caste category may apply for financial assistance under the Centrally Sponsored Scheme of Post Matric Scholarship. Details of the Scheme are available at https://scholarships.gov.in/public/schemeGuidelines/Postmatric_SC.pdf

Students belonging to the Scheduled Tribe category may apply for financial assistance under the Centrally Sponsored Scheme of Post Matric Scholarship. Details of the Scheme are available at

- (1) https://scholarships.gov.in/public/schemeGuidelines/Goa/Goa_3004_G.pdf
- (2) <https://scholarships.gov.in/public/schemeGuidelines/tribalfellowshipguideline.pdf>

4.6 Digital Study Materials and Assignments

The University has a provision to provide soft copy of the self-learning material in place of printed material. A learner opting for the soft copy will be given a discount of 15% in the Programme Fee. The Option to this effect has to be indicated by the learners while filling in the Online Admission Form. Such learners will not be given printed self-learning material. The University has digitized the study material for different programmes. The digitized material is available on eGyanKosh, the digital repository of the University.

The University encourages the use of digital study material. It has been decided that as an incentive 15% concession shall be given to the students who opt for digital study material in place of printed study material.

The University sends study material to all the students and if a student does not receive the same for any reason; whatsoever, the University shall not be held responsible for that. Assignments for the current session are made available on the website. Students are advised to download the same.

For non-receipt of study material, learners are required to write to the Registrar, Material Production and Distribution Division, IGNOU, Maidan Garhi, New Delhi – 110 068.

4.7 Guidelines for Admission in respect of International Students residing in India

- a) Download the Admission form for the respective Programme from IGNOU's website www.ignou.ac.in
- b) Fill up all the columns of the admission forms and attach the relevant documents (as mentioned in the Prospectus) along with the fee and cost of the registration fee.
- c) Submit the hard copy of the form along with documents and fees at the following address Director, International Division, IGNOU, Block No. 15, Maidan Garhi, New Delhi.
- d) The learner must fill all the Columns of the Admission Form, failing which the admission form will not be processed for admission. The complete applications should reach at the above address not later than the last date of submission of forms.
- e) The learner may apply only for those courses for which international fees have been prescribed.
- f) The learner will have to produce a valid STUDY VISA for the minimum duration of the programme. Presently, students from Nepal and Bhutan are not required to submit the Study Visa.
- g) The learner will have to remit the International Fees of the Programme.
- h) The fee has to be remitted through Bank Draft favouring "IGNOU" payable at New Delhi.

- i) The learner should possess the minimum qualification specified for the Programme. However, for equivalence of the qualification of the candidate reference may be made to Booklet Equivalence of Foreign Degrees published by the Association of Indian Universities. In case the Degree/Certificate possessed by the candidate is in a language other than English or Hindi, a translated copy duly verified by the concerned Embassy should be submitted.
- j) The fees once paid will neither be refunded nor transferred. However, in cases where the University denies admission, the programme fee will be refunded through A/c Payee Cheque only.
- k) The student needs to submit NO OBJECTION CERTIFICATE from the concerned embassy.
- l) In the letter it should be clearly written that the Embassy has no objection regarding study of the concerned student in IGNOU as well as extension of visa from time to time. PIO / OCI Card holders are not required to submit the NOC from the concerned Embassy.
- m) PIO/OCI card holders and also Refugees (UNCHR) Card Holders will pay the fee applicable to International Students.

For further details you may visit:

<http://www.ignou.ac.in/ignou/aboutignou/division/id/introduction>.

4.8 Migration Certificate

For the Migration Certificate, requisition may be sent to the Regional Director along with the following documents:

- 1) Application Form
- 2) Self-attested copy of the Grade card and Provisional certificate.
- 3) Fee of Rs.500/- in the form of a demand draft drawn in favour of IGNOU payable at the city where the Regional Centre is located.

4.9 Correction/Change of Name/Surname of Learner

Spelling mistakes, if any, committed at the time of data entry stage will be rectified at the Regional Centre and corrected data transmitted to Student Registration Division for updating in the database. However, Learners are expected to write their correct name (as indicated in the High School Certificate) in the Admission Form. In case any change in the name (other

than the one mentioned in his/her High School Certificate), then it is mandatory for the prospective learners to furnish legal evidence of having changed his/her name/ surname while submitting the admission form.

For Change of Name/Surname, after confirmation of admission, the learners are required to submit the following documents at the Regional Centre, for on-ward transmission to Registrar, SRD:

- a) Original copy of Notification in a daily newspaper notifying the change of name;
- b) Affidavit, in original, on non-judicial Stamp Paper of the appropriate value sworn in before 1st Class Magistrate specifying the change in the name;
- c) Marriage Card/Marriage Certificate in case of women candidates for change in surname;
- d) Gazette Notification, in original, reflecting the change of name/surname;
- e) Demand Draft of Rs.500/- drawn in favour of IGNOU payable at New Delhi

Request for correction and/or change of Name / Surname will be entertained only before award of the Degree/Diploma/Certificate. For change/correction of name after completion of programme, but before award of degree please see the guidelines available at: [http://www.ignou.ac.in/userfiles/Notification%20\(4\)\(3\).pdf](http://www.ignou.ac.in/userfiles/Notification%20(4)(3).pdf)

4.10 Prevention of Malpractice/Notice for General Public

Students seeking admission to various academic programmes of Indira Gandhi National Open University are advised to directly contact IGNOU headquarters at New Delhi or Regional Centres of IGNOU only. Students interacting with intermediaries shall do so at their own risk and cost. However, in case of any specific complaint regarding fraudulent institutions, fleecing students etc., please contact any of the following members of the Malpractices Prevention Committee:

However, in case of any specific complaint regarding fraudulent institutions, fleecing students etc., please contact any of the following members of the Malpractices Prevention Committee:

1. Director, Research Unit (Tele: 29534336)
2. Director, SSC (Tele: 29535714)
3. Director, RSD (Tele: 2953 2118, 29572412)
4. Registrar, SED (Tele: 2953 5828, 29572204)
5. Registrar, SRD (Tele: 2953 2741, 29571302)
6. Registrar, MPDD (Tele: 29534521, 29572002)
7. Deputy Registrar, F&A (Tele: 29534934)
8. Registrar (SRD) (Tele: 29571302)

Alternatively, complaints may be faxed on 29532312.

Email: registraroffice@ignou.ac.in

Website: <http://www.ignou.ac.in>

Note: Except the above mentioned complaints, no other queries will be entertained at the above phone numbers.

As per directions of Hon'ble Supreme Court of India ragging is prohibited. If any incident of ragging comes to the notice of the authority the concerned student shall be given the liberty to explain and if his explanation is not found satisfactory, authority would expel him from the University.

IGNOU admissions are made strictly on the basis of merit. Only those learners who satisfy the eligibility criteria fixed by the university will be admitted. Learners will not be admitted if they are not eligible as per the eligibility criteria. Therefore, the candidates should not be misled by the false promises of admission made by any private individuals or institution.

4.11 Placement Services

In order to further extend learner support services to its geographically distributed student population who are pursuing various IT and Non-IT related Degree, Diploma and Master's Programme, the university has established the Campus Placement Cell (CPC). The mission and endeavour of CPC is to enhance and facilitate the process of prospective suitable employment opportunities that are commensurate with the personal profiles of our learners. All students interested in seeking the assistance of CPC for procuring suitable job opportunities are requested to send their current resume/biodata to campusplacement@ignou.ac.in. They are further advised to visit our home page www.ignou.ac.in for regular updates on placement related activities.

4.12 Equal Opportunity Cell

In order to implement the provisions of the UGC (Promotion of Equity in Higher Education Institutions) Regulations, 2012, IGNOU has set up an Equal Opportunity Cell with the objectives of safeguarding the interests of all the students without any prejudice to their caste, creed, religion, language, ethnicity, gender and disability so that equality is promoted among all the sections of students.

5.0 LIST OF SCHOOL OF AGRICULTURE FACULTY

Name of faculty	Designation	Qualification	Area of Specialization
Prof. S. K. Yadav	Professor	M.Sc., Ph.D.	Agronomy
Prof. Praveen Kumar Jain	Professor	M.Sc., Ph.D.	Agricultural Economics
Prof. Vijayakumar, P.	Professor	M.V.Sc., Ph.D.	Livestock Production Management
Prof. Mukesh Kumar	Professor	M.Tech., Ph.D.	Agricultural Engineering (Soil and Water Conservation Engineering)
Dr. Mita Sinhamahapatra	Associate Professor	M.V.Sc., Ph.D.	Livestock Product Technology
Dr. Dinkar B. Kamble	Assistant Professor	M.Tech., Ph.D.	Food Science and Technology
Dr. Chaithra N.R.	Assistant Professor	M.Sc., Ph.D.	Agriculture Extension

Programme Name and Code: Diploma in Value Added Products from Fruits and Vegetables (DVAPFV)

Programme Coordinator: Prof. Mukesh Kumar

6.0 GUIDELINES FOR SUBMISSION OF ASSIGNMENTS

Assignments are part of the continuous evaluation of the student. The submission of assignments is compulsory. The grade that you get in your assignments will be counted in your final result. Assignments of a course carry 20% weightage while 80% weightage is given to the term-end examinations. Therefore, you are advised to take your assignments seriously. You cannot appear for the term-end examination for any course if you do not submit your assignment. Assignments are uploaded on the university website in the month of January. The validity of the assignments is one year which implies that these assignments are to be attempted by the students who have taken admission in the January and July cycles.

The main purpose of assignments is to test your comprehension of the learning materials you receive from us and also to help you get through the courses. The information given in the printed course materials should be sufficient for answering the assignments. Please do not worry about the non-availability of extra reading materials for working on the assignments. However, if you have easy access to other books, you may make use of them.

The assignment responses should be complete in all respects. For the tutor marked assignments, you have to submit your response sheets to the Coordinator of the Learner Support Centre assigned to you. After evaluation, these tutor-marked assignments will be sent back to you with comments and grade. The University/Co-ordinator of the Learner Support Centre has the right not to entertain or even reject the assignments submitted after the due date. You are, therefore, advised to submit the assignments before the due date.

Do not forget to get back from your Learner Support Centre your duly evaluated assignments along with a copy of the assessment sheet containing comments from the evaluator on your performance. This may help you to improve future assignments and in preparing for term-end examination.

For your own record retain a copy of all assignment responses which you submit. If you do not get back your duly evaluated tutor-marked assignments along with a copy of the assessment sheet containing comments of the evaluator on your assignment within a month after submission, please try to get it personally from your Learner Support Centre. This may help you to improve upon future assignments. Also, maintain an account of all these corrected assignment responses received by you after evaluation. This will help you to represent your case to the University in case any problem arises.

If you do not get pass grade in any assignment, you have to submit it again. For this, you have to ask for/obtain a fresh set of assignments for that course, applicable to that particular semester. However, once you get the pass grade in an assignment, you cannot re-submit if for improvement of grade. Assignments are not subject to re-evaluation except for factual errors, if any, committed by the evaluator. The discrepancy noticed by you in the evaluated assignments should be brought to the notice of the coordinator of the Learner Support Centre, so that the correct score is forwarded by him

to the Student Evaluation Division at Headquarters.

In case you find that the score indicated in the assessment sheet of your assignments has not been correctly reflected or is not entered in your grade cards; you are advised to contact the coordinator of your Learner Support Centre with a request to forward correct award list to the Student Evaluation Division (SED) at the Headquarters.

INSTRUCTIONS FOR ASSIGNMENTS

- Write your Enrolment Number, Name, full address, signature and date on the top right-hand corner of the first page of your response sheet.
- Write the programme title, course code, course title, assignment code and name of your learner support centre on the left-hand corner of the first page of your response sheet.

Course code and Assignment code may be reproduced from the assignment.

The top of the first page of your response sheet should look like this:

ENROLMENT NO
NAME
ADDRESS
SIGNATURE
PROGRAMME TITLE
COURSE CODE
COURSE TITLE
ASSIGNMENT CODE
(As printed on assignments)
LEARNER SUPPORT CENTRE

- Read the assignments carefully and follow the specific instructions, if any, given on the assignment itself about the subject matter or its presentation.
- Go through the Units on which assignments are based. Make some points regarding the question and then rearrange those points in a logical order and draw up a rough outline of your answer. Make sure that the answer is logical and coherent and has clear connections between sentences and paragraphs. The answer should be relevant to the question given in

the assignment. Make sure that you have attempted all the main points of the question. Once you are satisfied with your answer, write down the final version neatly and underline the points you wish to emphasize. While solving numerical, use proper format and give working notes wherever necessary.

- Use only A4 size paper for your response and tie all the pages carefully. Avoid using very thin paper. Allow a 4 cm margin on the left and at least 4 lines in between the answers. This may facilitate the evaluator to write useful comments in the margin at appropriate places.
- Write the responses in your own hand. Do not print or type the answers. Do not copy your answers from the Units/Blocks sent to you by the University. If you copy, you will get zero marks for the respective question.
- Do not copy from the response sheets of other students. If copying is noticed, the assignments of such students will be rejected.
- Write each assignment separately. All the assignments should not be written in continuity. Write the question number with each answer.
- The completed assignment should be sent to the Coordinator of the Learner Support Centre allotted to you. Under any circumstances do not send the tutor marked response sheets to the SED at Headquarters for evaluation.
- After submitting the assignments at the Learner Support Centre get the acknowledgment from the coordinator on the prescribed assignment remittance-cum-acknowledgement card.
- In case you have requested for a change of Learner Support centre, you should submit your assignments only to the original Learner Support Centre until the change of Learner Support Centre is notified by the University.
- The assignments can be obtained from the Learner Support Centre/Regional Centre or may be downloaded from IGNOU Website www.ignou.ac.in.
- There is no provision for re-evaluation of assignments as per rules.
- The validity of assignments is for two semesters.

7.0 CONTACT US

7.1 Some Useful Addresses

For your information, addresses of important officers dealing with different educational aspects are given below.

Whenever you have a problem, you can directly contact the concerned officer. **If you have any query regarding admission procedures, please write to the Regional Director of your region.**

WHOM TO CONTACT FOR WHAT

1.	Identity Card, Fee Receipt, Bonafide Certificate, Migration Certificate, Scholarship Forms	Concerned IGNOU Regional Centre
2.	Non-receipt of study material and assignments	Concerned Regional Director or MPDD, IGNOU
3.	SED Registrar's Secretariat	Contact No. Phone No: 011-29535828/ 2482 Intercom No. 2204/2205 FAX No.011-29534429 sed@ignou.ac.in
4.	Original Degree/Diploma/Verification of Degree/Diploma	Deputy Registrar (Exam-I), SED, Block-9, IGNOU, Maidan Garhi, New Delhi-110 068 e-mail: convocation@ignou.ac.in Ph. 011-29535438, 29572224, 29572213
5.	Schedule/Information regarding Exam-form, Entrance Test, date-sheet, IGNOU, Hall Ticket	Assistant Registrar (Exam-II), Student Evaluation Division (SED), Block-12, Room No. 2, IGNOU, Maidan Garhi, New Delhi-110 068 e-mail: sgoswami@ignou.ac.in Tele No. 011-29536743, 29572202, 29572209
6.	Result, Re-evaluation, Grade Card, Provisional Certificate, Early Declaration of Result, Transcripts	Deputy Registrar (Exam-III), SED, Block-12, Room No. 1, IGNOU, Maidan Garhi, New Delhi-110 068 Ph. 011-29536103, 29572201, 29572211, 29571525
7.	Non-reflection of Assignment Grades/Marks	Assistant Registrar (Assignment), Student Evaluation Division, Block-3, Room No. 12, IGNOU, Maidan Garhi, New Delhi-110 068 e-mail: assignments@ignou.ac.in or Ph. 011-29532294, 29571312, 29571319, 29571325
8.	Change of elective/medium/opting of leftover electives/deletion of excess credits	Concerned Regional Centre

9.	Student Grievances (online)	Assistant Registrar (Student Grievance) SED, Block-3, Room No. 13, IGNOU, Maidan Garhi, New Delhi-110 068 e-mail: sregrievance@ignou.ac.in Ph. 011-29532294, 29571313
10.	Purchase of Audio/Video Tapes	Marketing Unit, EMPC, IGNOU, Maidan Garhi, New Delhi-110 068 Ph. 011-29573210
11.	Academic Content	Director, School of Agriculture, Zakir Hussain Bhawan, Academic Complex, Block-G, IGNOU, Maidan Garhi, New Delhi-68 Ph. 011-29537067, 29572972, e-mail: soa@ignou.ac.in
12.	Information Regarding Counselling Sessions & Assignment Submission	Concerned Learner Support centres and Programme Study Centre
13.	Status of Project Report	Phone No: Intercom No. 1324/1320/1321 E-mail: projects@ignou.ac.in
14.	Student Support Services and Student Grievances, pre-admission inquiry of various courses in IGNOU	Director, Student Service Centre, IGNOU, Maidan Garhi, New Delhi-110068 e-mail: ssc@ignou.ac.in directorssc@ignou.ac.in Ph. :011-29535414, 29533869 Fax: 011-2953 3129
15.	Front Office (May I help you) (Students' General Enquiries) IGNOU Telephone Exchange Number	Phone No:011-29572218, 2210/ 2211/ 2208/ 2216/ 2209 29571000
16.	Public Information Center (PIC)	PH: 29533715, 29572508

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You are also advised to get in touch with the Programme In-charge of your Learner Support Centre or Programme Study Centre.

7.2 Online Facilities

IGNOU website is www.ignou.ac.in. A few important links under the site are enlisted here.

- a) **Schools:** Where you will get the information about the programmes offered by different Schools. In the School of Agriculture, programmes being offered in the agriculture sector are available.
- b) **For students:** The University's website (www.ignou.ac.in) has a special section marked as "Student Zone" to facilitate various student support services, from admission to results to the students and covers- registration details, queries about admission, re-registration, results; catalogue for print media and audio video; download facilities for assignment; library; question papers; material dispatch details, address checking; registration for SMS alerts; convocation; term-end date sheet; examination form; campus placement and prospectus and application form. The students are requested to access the Student Zone of the IGNOU website- www.ignou.ac.in. The link is <http://www.ignou.ac.in/ignou/studentzone>
For SMS alert you can be registered at:
<https://admission.ignou.ac.in/changeadmdata/UpdateMobile.asp>
- c) **Division:** Under this section, there are links to the Material Production and Distribution Division, Regional Service Division, Student Registration Division and Student Evaluation Division.
 - i. **Student Registration Division (SRD):** This link will give you information about admission and re-admission.
<http://admission.ignou.ac.in/changeadmdata/AdmissionStatusNew.ASP>
 - ii. **Student Evaluation Division (SED):** This link gives information about term-end examination, grade card status, results, hall ticket etc.
<http://www.ignou.ac.in/ignou/studentzone/results/2>
 - iii. **MPDD:** The link <http://www.ignou.ac.in/upload/price%20catale.pdf> and
a. registarmppdd@ignou.ac.in / mpdd@ignou.ac.in gives the price catalogue of the study material.
 - iv. **Electronic Media:** You will get the information about the Gyan Darshan Schedule, Gyan Vani schedule, Interactive Radio Counselling, teleconferencing schedule and feedback form. Please check with empc@ignou.ac.in / directorempr@ignou.ac.in or edusat-empr@ignou.ac.in

7.3 Some Forms for Your Use

Please see the latest version of the forms at the following links.

- 1) Sample Form for Early Declaration of Result.
<http://www.ignou.ac.in/userfiles/APPLICATION%20FORM%20FOR%20EARLY%20DECLARATION%20OF%20RESULT%20OF%20TERM-END%20EXAMINATION.pdf>
- 2) Sample Form for Re-evaluation of Answer Scripts
<http://www.ignou.ac.in/userfiles/Application%20form%20for%20Reevaluation%20of%20Ans>

[wer%20Scripts\(1\).pdf](#)

- 3) Sample Form for Improvement in Division/Class
<http://www.ignou.ac.in/userfiles/Improvement%20form.pdf>
- 4) Sample Form for Obtaining Photocopy of the Answer Script
<http://www.ignou.ac.in/userfiles/Application%20Form%20for%20obtaining%20photocopy%20of%20the%20answer%20script.pdf>
- 5) Sample Form for Issue of Official Transcript
<http://www.ignou.ac.in/userfiles/Official%20Transcript%20form.pdf>
- 6) Sample Form for Issue of Migration Certificate
<http://ignou.ac.in/userfiles/Migration%20Certificate.pdf>
- 7) Sample Form for Obtaining Duplicate Grade Card/Mark sheet
<http://www.ignou.ac.in/userfiles/Duplicate%20mark%20sheet%20form.pdf>
- 8) Application Form for Obtaining Duplicate Copy of Degree/Diploma/Certificate
<http://www.ignou.ac.in/userfiles/Duplicate%20Degree,Diploma%20and%20Certificate%20Form.pdf>

Grievance Redressal:

IGNOU has a robust mechanism in place for redressal of student grievances. A Special Online Portal – IGNOU Grievance Redress and Management (iGRAM) has been developed for this purpose. Students can submit their grievances on iGRAM online and track the response. iGRAM can be accessed at <http://igram.ignou.ac.in/>. A dedicated Student Service Centre has been set up at the HQ to respond to the queries and grievances of the students.

IMPORTANT INFORMATION

Please keep this Programme Guide safe till you complete the Programme. You will need to repeatedly consult it while pursuing the Certificate Programme, as this guide carries information pertaining to structure, course and units; guidelines for operationalization of the programme and formats required for different purposes to make correspondence with the University.

Printed Self Learning/Instructional Study Material (SLM) is the backbone of the Open and Distance Learning System (ODL). The study material is prepared by a team of experts keeping in view the requirements, understandings and interest of the learners. The material is developed through an expert committee who are distinguished academics and professionals in respective disciplines. The study material is written in such a manner that the learners can study themselves with little assistance from the Academic Counsellors at the Learner Support Centres. Further, you may also refer to textbooks and reference books, as per your requirement. These are available with select libraries attached to the Learner Support Centre or Programme Study Centres and Regional Centres.

The IGNOU will send you the study material by the registered post or may be handed over in person. If you do not receive the same for any reason, it may be immediately reported to your Regional Centre, for verification and necessary action. The assignment questions can be downloaded from the IGNOU website (www.ignou.ac.in).

Remember, you are eligible for Term-end-examination in June/December, depending upon the cycle of your admission i.e., January/July, till you have valid registration up to a maximum period of three years.