



PUBLIC SERVICE COMMISSION

Limited competitive Examination for Recruitment to Grade III of Sri Lanka Agricultural Service - 2021

APPLICATIONS are invited from Public Officers who have completed the following qualifications for the limited Competitive Examination for the recruitment of officers to the 148 posts mentioned in Section 1, Grade III of the Sri Lanka Agricultural Service under the provisions set out in the Sri Lanka Agricultural Service Minute. These qualifications should be completed by the last date of calling applications.

In this notification, the "Minute on the Sri Lanka Agricultural Service" includes the Sri Lanka Agricultural Service Minute published in the *Extraordinary Gazette* No. 1880/26 and dated 19.09.2014 of the Democratic Socialist Republic of Sri Lanka and all amendments made to it so far and to be made in the future, "Appointing Authority" shall mean Public Service Commission, Secretary, shall mean the Secretary of the Ministry - in - charge of the subject of Agriculture, "Service" shall mean Sri Lanka Agricultural Service and "Appointment" shall mean an appointment to the Grade III of the Sri Lanka Agricultural Service and "Written Examination" shall mean Limited Competitive Examination for Recruitment to Grade III of the Sri Lanka Agricultural Service Grade 2021 and the term "Officer" unless otherwise specified shall mean an officer of the Sri Lanka Agricultural Service. The closing date of applications will be **3rd of January 2022**. This examination will be conducted by the Commissioner General of Examinations in **March 2022 in Colombo** only.

Note : If candidates, who have applied for Limited Competitive Examination for recruitment of officers to Grade III of the Sri Lanka Agricultural Service as per application calling notification published in the Government *Gazette* notification No. 1929 dated 21.08.2015, expect to appear for the examination they have to reapply. The list of names of those candidates who have submitted applications will be published in the website of the Department of Examination of Sri Lanka and the website of the Ministry of Agriculture. It is not necessary to pay examination fees at reapplying by them.

1. Posts Vacant / Number of Vacancies

<i>Stream</i>	<i>Post</i>	<i>No. of Vacancies</i>	<i>Code of the post</i>
Agricultural Development	Assistant Director of Agriculture (Agricultural Development)	85	1
Agricultural Research	Assistant Director of Agriculture (Agricultural Research)	59	2
Agricultural Economics	Assistant Director of Agriculture (Agricultural Economics)	04	3

Note -

In the limited competitive examination, one applicant can apply for only one of the above stream posts.

2. Method of Recruitment :

2.1 Written Examination :

The written examination consists of the following two question papers and the syllabus is given in the first appendix of this notification.

Question Paper	Time (hours)	Maximum Marks	Pass Marks
Intelligence Test Paper	1 1/4	100	40
Subject Matter Paper (In accordance with the relevant post)	2	100	40

- 2.2 In order to pass the written examination, 40% or more marks are required for each question paper.
- 2.3 Structured Interview : Marks will be awarded to seniority and basic qualifications will be scrutinized. A number of applicants not exceeding twice the number of vacancies out of the applicants who pass the examination by obtaining 40% of marks for each paper shall be called for the interview.
- 2.3.1 Method of awarding Marks for Seniority at the interview : The period of active service of an applicant with effect from the date of fulfillment of prescribed qualifications up to the closing date of applications shall only be reckoned for the purpose of awarding marks for seniority. Subject to a maximum of 30 marks, at a rate of two (02) marks for each year of such period of active and satisfactory service and at a rate of one (01) mark for a period of service extending to 180 days or more shall be awarded.
- 2.4 Subsequent to submitting the marks obtained for seniority to the Sri Lanka Department of Examinations, the Department of Examinations will prepare final priority list of limited examination by adding marks for seniority and marks of written examination and forwarded it to the Public Service Commission. Recruitments will be made on the order of merit of that priority list.

03. Terms and Conditions of Engagement :

- 3.1 This post is permanent and pensionable. Officers recruited to the Public Service on or after 01.01.2016 should be subject to the policy decisions taken by the government in the future in respect of pension scheme they are entitled to.
- 3.2 Further, any officer who will be appointed to any of above posts should make his/her contributions to Widows'/Widowers' and Orphans' pension fund as stipulated by the government from time to time.
- 3.3 Officers selected should be agreeable to serve in any part of the island.
- 3.4 All Officers in the Sri Lanka Agricultural Service are subject to serve in all Provincial Public Services as required. For this purpose the Officer will be temporarily released to a post in the Provincial Public Service. Such term of service will be determined on the consent between the relevant Provincial Authority and the Appointing Authority according to exigencies of service.
- (a) Provincial authority will issue a letter of appointment to the relevant officer subject to the conditions of release from the service. The officers appointed to Provincial Councils will be subject to the transfers within the Province made by the relevant Provincial Authority.
- (b) An officer shall be subject to the administration and disciplinary control of the Public Service Commission, even during his period of service in the Provincial Public Service.
- (c) An officer who released to the provincial public service shall return to his/her substantial post at the end of the period he/she so released.
- 3.5 Officers appointed to Grade III on the results of Limited Competitive Examination will be subject to a period of one year acting. Officers appointed through Limited recruitment shall pass the First Efficiency bar examination within three (03) years.
- 3.6 **Skills Development** : Skills Development training will be provided to the officers recruited to the service through one (01) month training programme to acquire the skills on trends of Socio Economic and Cultural in relation to

agricultural development and job environment by the Department of Agriculture or any other institute (Example : Sri Lanka Institute of Development Administration) identified by the Department. At the end of the programme, a certificate will be awarded after an assessment. This certificate should be obtained for the confirmation in the service.

- 3.7 Selected candidates will be placed in Grade III of the Sri Lanka Agricultural Service subject to the General terms and conditions governing appointments in the Public Service, provisions of the Service Minute of Agricultural services of Sri Lanka, Regulations of the department, provisions of the Establishments Code and Financial Regulations of the Democratic Socialist Republic of Sri Lanka, the Rules of Procedure of the Public Service Commission (hereinafter referred to as Procedural Rules) published in the *Gazette Extra Ordinary* No: 1589/30 of 20.02.2009 and any amendments already made or to be made hereinafter to the above Terms, Conditions, Orders, Provisions, Regulations and Rules.
- 3.8 Recruited officers are required to obtain the competency in the second languages within prescribed period as per provisions of Public Administration Circular No. 18/2020 and Circulars incidental thereto.

04. Salary Structure and Annual Salary Scale :

The consolidated monthly salary scale assigned to these posts as per Public Administration Circular 03/2016 is as follows:

SL - 01-2016- Rs. 47,615 - 1335 x 10 - 1630 x 8 - 2170 x 17 - Rs. 110,895/-

Recruitment will be made to Grade III of the Sri Lanka Agricultural Service.
Initial salary step of Grade III - Rs. 47,615/-

05. Qualifications

5.1 *Basic Qualifications :*

5.1.1 *For Streams of Agricultural Development*

- (a) An officer who holds a post of Agricultural Instructor in Special Grade of the Sri Lanka Technological Service.

OR

- (b) An officer who holds a post of Agricultural Instructor and has completed at least 10 years active and satisfactory period of service in the Sri Lanka Technological Service or Provincial Technological Service

OR

- (c) An officer of the Associate Officer Service category who has obtained a four year Bachelor's degree in Agriculture from a University recognized by the University Grants Commission and has completed five (05) years active and satisfactory period of service under the Department of Agriculture of Provincial Departments of Agriculture and has directly involved or be involving in the duties of the Department of Agriculture or the Provincial Departments of Agriculture.

OR

- (d) An officer who holds a post of Garden Assistant and has completed 10 years active and satisfactory period of service.

- (e) An officer who holds a post of Agricultural Instructor of Garden Assistant possessing a degree in Agricultural Science or Science and has completed 05 years active and satisfactory period of service.

5.1.2 *For Stream of Agricultural Economics*

- (a) An officer who holds a post of Economist Assistant and has completed five (05) years active and satisfactory period of service.

OR

- (b) An officer of the Associate Officer Service category who has obtained a four year Bachelor's degree in Agriculture from a University recognized by the University Grants Commission and has completed five (05) years active and satisfactory period of service under the Department of Agriculture or Provincial Departments of Agriculture and has directly involved or be involving in the duties of the Department of Agriculture or the Provincial Departments of Agriculture.

5.1.3 For Stream of Agricultural Research

- (a) An officer who holds a post of Research Assistant, Soil Surveyor or Land Evaluation Officer in Special Grade of the Sri Lanka Technological Service.

OR

- (b) An officer who holds a post of Research Assistant, Soil Surveyor or Land Evaluation Officer and has completed a minimum period of ten (10) years active and satisfactory service in the Sri Lanka Technological Service.

OR

- (c) An officer of the Associate Officer Service category who has obtained a four year Bachelor's degree in Agriculture from a University recognized by the University Grants Commission or four year degree in Bachelor of Science in the subjects of Botany, Chemistry or Zoology obtained from a University recognized by the University Grant Commission and has completed five (05) years active and satisfactory period of service under the Department of Agriculture or Provincial Departments of Agriculture and has directly involved or be involving in the duties of the Department of Agriculture or the Provincial Departments of Agriculture.

OR

- (d) An officer who holds a post of Research Assistant, Soil Surveyor or Land Evaluation Officer possessing a degree in Agricultural Science or Science and has completed a period of five (05) years active and satisfactory service.

Note :

1. Having held a post of Agriculture Monitoring Officer or Program Assistant (Agriculture) as at 18.09.2009 being the date on which the *Gazette Extra Ordinary* No. 1619/25 of the Democratic Socialist Republic of Sri Lanka was published by amending the Minute on the Sri Lanka Agricultural Service as per ruling given as per supreme court Application No. 61/2006 and being an officer holding a post of Agriculture Monitoring Officer or Program Assistant who completed five (05) year active service will be considered as a basic qualification to apply under limited recruitment and those officers could apply for limited recruitment only under one stream among Agricultural Development, Agricultural Economics or Agricultural Research Streams.

5.2 Physical Requirements :

Every applicant shall be physically fit in all respect to serve in any part of Sri Lanka.

5.3 Other Qualifications :

- (i) Applicants must be of excellent Moral Character.
- (ii) Applicants should fulfill required qualifications at the closing date of calling application.
- (iii) Concessions or promotions granted to an applicant with retrospective effect, subsequent to the date specified in the notification for calling applications will not be treated as fulfilling of the prescribed qualifications for the examination.
- (iv) The officer should not have been subject to a disciplinary punishment as per the provisions set out in the Public Service Commission Circular No. 01/2020.

06. Examination Fee

6.1 Exam fee is Rs. 1200/-

The receipt obtained on payment of the examination fee to any post office in the island by cash to be credited to government revenue under the revenue head 20-03-02-13 of the Commissioner General of Examinations should be affixed in the relevant place from one of its edges so as to be unglued. Money orders and stamps are not accepted for the examination fee and the examination fee so paid will not be refunded or changed for other examination in any circumstance. Keeping a photocopy of the receipt would be an advantage.

07. Instructions to Prepare the Application and apply to the Examination :

- 7.1 The applicants, who apply for the Limited Competitive examination, should forward only one application. The applicants, who apply for the Limited Competitive examination, should prepare their application in compliance with the specimen appended at the end of this notification. The application should be prepared on an 8 1/2 x 12 inches (A4 size) paper using both sides of the paper and should be clearly filled by the applicant in his/her own hand writing . It should be specially noted that the application is required to be prepared as from No. 01 to 06 of the application on the first page and remainder on pages 02 and 03.
- 7.2 Applications which are not in accordance with the specimen application, not completed in every respect, altered using correction fluid and the applications in which code numbers and other information are scratched out will be rejected without notice. It is noted that a photo copy of the applications posted should essentially be kept with the applicant and the applicant shall be ready to produce it if necessary at the time of calling for the interview.
- 7.3 The name of the examination appeared either Sinhala or Tamil Language in the application is required to be printed in English Language also. Applications should be sent only by registered post to reach the "Commissioner General of Examinations, Organization (Establishment and Foreign Examination) Branch, Sri Lanka Department of Examination P.O. Box 1503, Colombo " on or before 03.01.2022. the words "Limited Competitive Examination for Recruitment to the Sri Lanka Agricultural Service - 2021" should be clearly marked on the top left hand corner of the envelop enclosing the application.
- 7.4 Applications received after the closing date of applications will not be entertained. The applicants who apply for the Limited Competitive Examination should send their applications through the Director General of Agriculture in case of Department of Agriculture, Provincial Director of Agriculture in case of Provincial Department of Agriculture, Secretary of the Ministry in - Charge of the subject of Agriculture in case of Ministry of Agriculture.

Note - Applications which are not in accordance with the specimen appears at the end of the notification, not completed in every respect and not in order will be rejected without any notice. Applications should not be addressed personally to officials of the Department/Provincial Departments/Ministry of Agriculture. No compliant that an application has been lost or delayed in the post will be considered.

08. Admission to the Examination :

- 8.1 The signature of the applicant should be certified in the application and in the admission form for the examination. The signature of an applicant working in any State /Provincial Public Service or Public Corporation should be attested by the Head of the Institution or an authorized officer.

An applicant must sit the Examination at the Examination Hall assigned to him/her. Every applicant should surrender the admission card to the supervisor of the examination hall of the first day presenting himself/ herself for the Examination. It is the responsibility of every applicant to answer the question paper prescribed for the examination to which he/she presents himself/herself. A set of rules to be followed by all applicants is published in this *Gazette*. All applicants are subject to the rules imposed by the Commissioner General of Examinations in connection with this examination. An applicant who violates any of these rules is liable to a punishment at the discretion of the Commissioner General of Examinations.

- 8.2 Issuance of the admission cards to an applicant does not necessarily mean that he/she has the requisite qualifications to sit for the examination.
- 8.3 The Commissioner General of Examinations will issue admission cards to the applicants who have paid the examination fee on or before the date of receipt of the application and submitted the completed application along with the relevant receipt on the presumption that only those who have the qualifications mentioned in the *Gazette* Notification have applied. The Sri Lanka Department of Examinations will publish a notice in newspapers soon after the issuance of admission cards to the applicants. An applicant who fails to procedure his/her admission card will not be permitted to

sit the examination any applicant who does not receive his/her admission cards two or three days after the notification, should notify that effect to the Department of Examination as mentioned in this notification. Applicants are informed to notify to the Department of Examinations indicating full name, NIC number and address of the applicant and keeping the copy of application which is retained by you, copy of receipt of payment of examination fee and copy of the receipt of registration of the application issued when application was sent by registered post in hand and in case of an applicant living outside Colombo, to obtain a copy of the admission cards by fax, it would be more productive to notify to the Department of Examinations by faxing a request including your above information and a fax number.

09. Identification of the Applicant :

An applicant will be required to prove his/her identity at the Examination Hall to the satisfaction of the supervisor for each subject he/she at appears. For this purpose only the following documents will be accepted.

- a) National Identity card
- b) A valid passport
- c) A valid driving license

Furthermore, the candidates should enter the examination hall without covering their faces and ears in order to prove their identity. The candidate who refuses to prove their identity in the said manner shall not be allowed to enter the examination hall. Moreover, the candidates should remain in the examination hall from the time of entering the examination hall up to leaving upon completion of the examination without covering the face and ears enabling the invigilators to identify the candidate.

10. Scheme of Examination :

10.1 Medium of the Examination :

The Examination will be held in Sinhala, Tamil and English media. The language of the examination given in the application will not be allowed to change later.

10.2 An applicant must sit for all papers of the examination in one and the same language.

11. Competitive Examination Procedure and relevant syllabus :

All applicants shall answer the question papers 1 and 2 in accordance with the syllabus indicated in first appendix. Syllabus for each post is indicated in second Appendix.

12. No certificate should be attached to the application. Applicants should prepare to produce the originals of the certificates in support of the qualifications stated in their applications only at the interview.

13. Furnishing false Information :

If an applicant is found to be ineligible his/her candidature is liable to be cancelled at any stage prior to during or after the examination. If any particulars furnished by an applicant found to be false or if he/she has willfully suppressed any material, fact he/she will be liable dismissal from the Public Service.

All applicants are subject to the rules imposed by the Commissioner General of Examinations in connection with this examination. An applicant who violates any of these rules is liable to a punishment at the discretion of the Commissioner General of Examinations.

14. If any confusion arises about applications or method of selection, the decision of the Appointing Authority shall be deemed final.

15. The final decision to fill all or part of existing vacancies will be taken by the Appointing Authority.

16. In the event of any inconsistency among Sinhala, Tamil and English texts, the Sinhala text shall prevail.

By order of the Public Service Commission,

Secretary,
Ministry of Agriculture,

Rajamalwatta Lane,
Battaramulla.

On this day of 24th November, 2021

05. Telephone No.:

06. (i) Date of Birth : Year : Month : Date :

(ii) Age as at the closing date of applications : Years : Months : Days :

07. State whether you are a citizen of Sri Lanka : (indicate the relevant word in the cage) Yes/ No

08. Educational Qualifications :

8.1 Degree Qualifications :

<i>Degree/ Degrees obtained</i>	<i>Whether the Degree/ Degrees obtained is a four year Degree/ Degrees</i>	<i>Academic year and the valid date of the degree (Indicate clearly)</i>	<i>University/ Universities</i>	<i>Subject</i>	<i>Pass</i>	<i>Medium</i>
1.						
2.						
3.						

09. State whether you have sat Limited competitive Examination for recruitment to the Sri Lanka Agricultural Service Before ? If so indicate the year/ years :

10. State the qualifications obtained by applicants who apply for Limited Competitive examination to be eligible sit for the examination under paragraph 05 of this notification

<i>Present Post</i>	<i>Post eligible to be recruited under limited recruitment</i>	<i>Date of obtaining eligibility to apply for the post of</i>
1. Research Assistant 2. Soil Surveyor 3. Land evolution Officer 4. Agricultural Instructor 5. Economic Assistant 6. Garden Assistant 7. Associate Officers Service Category (State the post)	1. ADA (Agricultural Research) 2. ADA (Agricultural Department) 3. ADA (Agricultural Economics)	ADA (Agricultural Research) ADA (Agricultural Development) or ADA (Agricultural Economics). (Date of completing the qualifications as Para 5.1 of the notification)

11. Have you ever been convicted in a Court of law for any offence? Yes/ No.
 If yes, give details

12. Particulars on the Receipt obtained on payment of Examination Fee :
 (i) The post office to which Examination Fee was paid :

(ii) Receipt No. : Date

(iii) Amount paid :

Affix the receipt here from on of its edges so as to be unglued
(it would be an advantage to keep a photocopy of the receipt)

13. Declaration of the applicant :

I, do here by certify that the particulars given by me in this application are true and correct. I am also aware that if any particular contained herein is found to be false or incorrect, I am liable to disqualification if detected before selection and to dismissal with immediate effect, if detected after the selection and , I will be responsible for any lapse caused while preparing the application. Further, I agree to abide by the rules imposed by the Commissioner General of Examinations, I also declare that I have paid the prescribed Examination fee and submitted only one application.

Date :.....

.....

Signature of Applicant.

14. Certificate of the Head of the Department / Head of the Provincial Department / Secretary in - charge of the subject of Agriculture

I, hereby certify that Mr. / Mrs./ Miss. is employed in this Department/ Provincial Council as a
....., his/ her work and conduct are satisfactory, he/ She has / has not earned all increments during immediately preceding 05 years, he/ she has fulfilled the all relevant qualifications to the post as per Para 6.1., he/ she is eligible in every respect to apply for this post and that there is/ there is no disciplinary action pending against him / her. If selected, he / she can be/ can't be released from his/ her present post. (Write - off the words inapplicable.)

.....
Signature and Official Seal of the Head of the Department/
Head of the Provincial Department/
Secretary in - charge of the subject of Agriculture.

Name :

Designation :

Address :

Date :

First Appendix

Regulations and Syllabus of the Limited Competitive Examination

● Question Paper - I - Intelligence Test

A multiple - choice short question paper including questions to assess the linguistic, mathematics and logical ability. Duration 1 1/4 hours. Total marks 100.

● Question Paper 2 -Study of Subject Area

This is a written aptitude test to assess the knowledge in the relevant subject area. Each applicant may sit for question papers as relevant to the post or posts he/she applies for, chosen from the following question papers. These question papers consist of short questions and multiple - choice questions. Duration 02 hours. total marks 100.

Note. -Subject matter paper in the open Competitive Examination will be prepared mainly focusing the theoretical knowledge in accordance with the following syllabus. Examination will be held as determined by the Director General of Examinations.

Syllabuses in respect of each post are enumerated below :

I. Syllabus for the stream of Agricultural Research :

Applicants shall answer only one out of the two parts referred to in (A) and (B) below, as they wish.

Part (A)

01. Agricultural Botany :

Fundamentals of crop classification, fundamentals of crop growth and physiology.

02. Genetics and Plant Breeding :

Mendelian law, population genetics, mutations molecular genetics, cytogenetic, quantitative genetics, fundamentals of plant breeding, genetic resources protection and bio-diversity, pollination behavior and breeding concepts, incompatibility, mass and pure line selection, commonly used breeding methods and current trends.

03. Plant Pathology :

Types of Pathogenic organisms, infections, response of plant to infections, infective methods and fundamentals of their management, current trends in plant pathology and diseases management, diagnostic techniques, symptomatology, Koch's postulate applications, modern techniques of diagnosis (ELISA), current trends.

04. Fundamentals of Entomology :

Fundamentals of classification of animals, structural characteristics, biological information and damage, economic significance of pest damage, estimation of insect population and damage.

05. Seed Technology :

Seed physiology, morphology, dormancy, germination, viability, tests on viability and purity, stages of seed production, seed certification and seed storage.

06. Tissue Culture :

Theories, Facilities and requirements for tissue culture, media, applications of tissue culture systems, protoplast culture, mutagenesis, embryo rescue, in vitro fertilization, genetic transformations, cryopreservation.

07. Agricultural Chemistry :

Fundamentals of biochemistry and practical applications of biochemistry in agriculture, fundamentals of food chemistry and practical applications of food chemistry in agriculture, fundamentals of analytical chemistry and practical applications of analytical chemistry in agriculture;

OR

Part (B)

01. Agronomy

Agro-climatology, ecology, land development, tillage, fundamentals of crop growth and physiology, measurement of crop growth, yield indices, fertilizer recommendations and efficiency, weed biology and control, principles of irrigation systems, principles of crop soil and water relationship.

02. Crop Science

Physiology of rice, highland grains, pulses, tuber crops and other field crops, growth, methods of propagation, methods of planting, physical chemical and biological methods in crop manipulation, establishment and management of scientific pastures, fundamentals of timber and fruit production.

03. Soil Science

Soil formation, physical and chemical characteristics of soil, soil problems relating to cropping, fertility management of soil, watershed management, plant nutrition, fundamentals of plant classification.

04. Genetics and Plant Breeding :

Fundamentals, Mendelian law, population genetics, mutations, molecular genetics, cytogenetic, fundamentals of plant breeding, genetic resources protection and bio - diversity.

05. Plant Pathology :

Plant infections, response of plants to infections, biological control, modern trends in disease management.

06. Fundamentals of Entomology :

Indicated under sub - paragraph 04 of question paper (A)

07. Field research principles and statistical principles and knowledge in important statistics on agricultural sphere in Sri Lanka.

08. Entomology :

Economically significant insects in agriculture, their classification, internal and external features, structure of different systems and their functions, pest management, significance of pest damage, pest identification, their damage and control, integrated pest management.

09. Micro - biology :

Micro - organisms and agricultural environment, bio-technology applications in agriculture, soil-living biomass and their effects on agricultural practices.

10. Biometrics and Applied Statistics :

Basic knowledge in statistics, agricultural research, analysis of planning, obtaining and analysis of data.

Note.- it will be compulsory for all the applicants who apply for the stream of Agricultural Research through Limited Recruitments to answer only any part of the 02 parts referred to in (A) or (B) above.

II. Syllabus for the stream of Agricultural Development

01. General Agriculture

Climatic zones of Sri Lanka, land development, land preparation and equipment, crop establishment and machinery required for the purpose, soil and soil fertility, nursery and nursery management, planting material, pest control, plant protection, appliances, cropping systems, irrigation methods, integrated farming, protected agriculture, micro-irrigation systems, harvesting and harvesting machinery, post - harvest losses, processing of farm products, factors considered in selecting suitable vegetables, fruits, pulses and cereals for cultivation in specific area, integrated pest management, integrated plant nutrition systems, Plant Protection Act, Soil Conservation Act.

02. Crop Productions :

Agroonomy, agro-climatology and ecology, land development and tillage, fundamentals of crop growth and physiology, measurement of crop growth, yield indices, fertilizer recommendations and efficiency, weed biology and control, irrigation agronomy, principles of crop water relationship.

03. Field Crops :

Introduction, ecological requirements, plant species and varieties, growth physiology, physiological principles of yield determination, rice agronomy, crop management and production, highland cereals, legumes, tube crops and other important field crops (tobacco, onion, fiber and oil crops).

04. Crop Management :

Intercropping, harvesting and processing.

05. Horticultural Crop Production :

Fruit production, nutritional value , social and economic factors, origin and distribution, ecological requirements, cultural practices, application of modern techniques.

06. fruit, vegetable and flower production :

Nursery management, orchard management, modern techniques in crop establishment and culture, fruit and vegetable crop improvement, fruit and vegetable based cropping systems, post-harvest losses, prevention of post-harvest losses of fruits and vegetables, biotechnology, local and export markets for fruits and vegetables, present constraints and future strategies, requirements for vegetable production, vegetable based cropping systems, marketing, floriculture, propagation techniques, cultural practices, quality parameters, principles of landscape gardening.

07. Agricultural Extension and Training

Introduction of agricultural extension and objectives , agricultural development and extension, adaptation and diffusion of innovations, communication, teaching methods of extensions, extension approaches used in Sri Lanka, relation between research and extension, preparation of extension programmes, review and evaluation, institutions associated with agricultural extension in Sri Lanka, adult education, training procedure, various techniques used in identifying training requirements, arrangements, arrangement of lessons, evaluation of training, use of audio-visual devices for training.

08. Seed Technology :

Seed physiology, Structure, morphology, germination, viability, seed testing, tests on viability and purity, stages of seed production, seed certification and seed storage.

09. Apiculture :

Types of bees and hives in a colony, parts of bee boxes, capturing of bee colonies, establishment, dividing, pest and diseases in a bee colony.

III. Syllabus for the stream of Agricultural Economics

01. Agricultural Production/ Economics and Farm Management :

Importance of farm management in agricultural production, basic concepts, production functions, forms of production functions, production surfaces, ISO-quant, ISO-clines, ISO-revenue lines, principles of resources combination and cost minimization, principles of diminishing returns, substitution and income effects, flexibility and diversification of adjustments of production to meet risk and uncertainty in agriculture, price theory with special emphasis relating to pricing of agricultural products, evaluation of crop-livestock combination, farm site and returns to scale, principles of importance and comparative advantage of family farms, importance of records in determining the strong and weak points in the farm mechanization and incorporation of this information in optimization models.

02. Agricultural Marketing :

General principles of marketing, relative importance of such production and marketing, institutions dealing with marketing in Sri Lanka, role of such institutions in influencing the growth of markets, problems facing the marketing of agricultural products in Sri Lanka and Principles involved in improving marketing efficiency.

03. Land Economics :

Economics, concepts as applies to land use, demand for land supply in Sri Lanka, land use planning in Sri Lanka, importance of colonization and settlement programmes in Sri Lanka.