



# MES KEVEEYAM COLLEGE VALANCHERY

Valanchery, Malappuram Dist, Kerala, Pin: 676 552.  
e: 0494-2642670  
f:meskvmcollege.org, Email: principal@meskvmcollege.org

**Aided by Govt. of Kerala and Affiliated to University of Calicut**  
Reaccredited with 'A' Grade by NAAC (Score 3.28)  
ISO 9001:2015 certified institution

## List of new courses introduced in the Programme B Voc Retail Management

| Name of the New Courses Introduced in the Last 5 years                                           | Programme Name          | Programme Code | Course Code  | Year of Introduction |
|--------------------------------------------------------------------------------------------------|-------------------------|----------------|--------------|----------------------|
| Transactions Essential English Language Skills A01                                               | BVoc Retail Management  | MESKV/56/RT    | GEC1EG01     | 2018                 |
| Malayalam –BashayumSahithyavum-I MAL1A01(2)                                                      | BVoc Retail Management  | MESKV/56/RT    | GEC1ML02     | 2018                 |
| Communication Skills in Arabic ARB1A07(1)                                                        | BVoc Retail Management  | MESKV/56/RT    | GEC1AR02     | 2018                 |
| Prose and One Act Plays A07                                                                      | BVoc Retail Management  | MESKV/56/RT    | GEC1HD02     | 2018                 |
| Ways with Words A02                                                                              | BVoc Retail Management  | MESKV/56/RT    | GEC2EG04     | 2018                 |
| Malayalam –BashayumSahithyavum-II MAL2A02(2)                                                     | BVoc Retail Management  | MESKV/56/RT    | GEC2ML05     | 2018                 |
| Literature in Arabic ARB2A08(2)                                                                  | BVoc Retail Management  | MESKV/56/RT    | GEC2AR05     | 2018                 |
| Poetry and Short Stories A09                                                                     | BVoc Retail Management  | MESKV/56/RT    | GEC2HD05     | 2018                 |
| Writing for Academics and professional Success A03                                               | BVoc Retail Management  | MESKV/56/RT    | GEC3EG07     | 2018                 |
| Zeitgeist: Readings on Contemporary Culture A04                                                  | BVoc Retail Management  | MESKV/56/RT    | GEC4EG10     | 2018                 |
| E-Commerce and General Informatics                                                               | B Voc Retail Management | MESKV/56/RT    | GECIEC03     | 2018                 |
| Introduction to Retail Store Operations- Health Safety, Security, Team & Organizational Dynamics | B Voc Retail Management | MESKV/56/RT    | SDC1RM01     | 2018                 |
| Basic Business Communication Skills                                                              | B Voc Retail Management | MESKV/56/RT    | SDC1RM02(P)  | 2018                 |
| Lab on Business Communication Skills(P)                                                          | B Voc Retail Management | MESKV/56/RT    | SDC1RM03(P)  | 2018                 |
| Lab on Retail Selling Skills- I(P)                                                               | B Voc Retail Management | MESKV/56/RT    | SDC1RM04(P)  | 2018                 |
| Financial AccountingBC2B02                                                                       | B Voc Retail Management | MESKV/56/RT    | GEC2FA06     | 2018                 |
| Retail Logistics Management                                                                      | B Voc Retail Management | MESKV/56/RT    | SDC2RM05     | 2018                 |
| Retail Shopper Behavior                                                                          | B Voc Retail Management | MESKV/56/RT    | SDC2RM06     | 2018                 |
| Lab on Retail Selling Skills II (P)                                                              | B Voc Retail Management | MESKV/56/RT    | SDC2RM07(P)  | 2018                 |
| Internship/Project (Pr)                                                                          | B Voc Retail Management | MESKV/56/RT    | SDC2RM08(Pr) | 2018                 |
| Personality and Soft Skills Development                                                          | B Voc Retail Management | MESKV/56/RT    | GEC3PS08     | 2018                 |
| Human Resources Management BC3C03                                                                | B Voc Retail Management | MESKV/56/RT    | GEC3HR09     | 2018                 |
| Retail Stores & Operations Management                                                            | B Voc Retail Management | MESKV/56/RT    | SDC3RM09     | 2018                 |
| Store Display and Visual Merchandising                                                           | B Voc Retail Management | MESKV/56/RT    | SDC3RM10     | 2018                 |
| Computerised Accounting (P)                                                                      | B Voc Retail Management | MESKV/56/RT    | SDC3RM11(P)  | 2018                 |



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|--------------------------------------------------------|-------------------------|----------------|--------------|----------------------|
| Lab on Store Display and Customer Service(P)           | B Voc Retail Management | MESKV/56/RT    | SDC3RM12(P)  | 2018                 |
| Entrepreneurship Development BC4A13                    | B Voc Retail Management | MESKV/56/RT    | GEC4ED11     | 2018                 |
| Quantitative Techniques for Business BC4C04            | B Voc Retail Management | MESKV/56/RT    | GEC4QT12     | 2018                 |
| Elements of Salesmanship                               | B Voc Retail Management | MESKV/56/RT    | SDC4RM13     | 2018                 |
| Retail Advertising & Sales Promotion                   | B Voc Retail Management | MESKV/56/RT    | SDC4RM14     | 2018                 |
| Computer Practical -I (MS Office) (P)                  | B Voc Retail Management | MESKV/56/RT    | SDC4RM15(P)  | 2018                 |
| Internship/Project (Pr)                                | B Voc Retail Management | MESKV/56/RT    | SDC4RM16(Pr) | 2018                 |
| Conference and Event Management                        | B Voc Retail Management | MESKV/56/RT    | GEC5EV13     | 2018                 |
| Mail Management                                        | B Voc Retail Management | MESKV/56/RT    | GEC5MM14     | 2018                 |
| Retail Planning                                        | B Voc Retail Management | MESKV/56/RT    | SDC5RM17     | 2018                 |
| Retail Targets & Locations                             | B Voc Retail Management | MESKV/56/RT    | SDC5RM18     | 2018                 |
| Retail Distribution Management, Stores Layout & Design | B Voc Retail Management | MESKV/56/RT    | SDC5RM19     | 2018                 |
| Computer Practical-II (MS Office) (P)                  | B Voc Retail Management | MESKV/56/RT    | SDC5RM20(P)  | 2018                 |
| Lab on Advertisement and Sales Promotion(P)            | B Voc Retail Management | MESKV/56/RT    | SDC5RM21(P)  | 2018                 |
| Internship & Project (900 Hrs.)                        | B Voc Retail Management | MESKV/56/RT    | SDC6RM22     | 2018                 |



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PRINCIPAL  
M.E.S. KEVEEYAM COLLEGE  
VALANCHERY, PIN: 676 552  
MALAPPURAM

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## List of new courses introduced in the Programme B Voc Optometry

| Name of the New Courses Introduced in the Last 5 years | Programme Name  | Programme Code | Course Code   | Year of Introduction |
|--------------------------------------------------------|-----------------|----------------|---------------|----------------------|
| General Anatomy & Physiology                           | B Voc Optometry | MESKV/57/OP    | GEC1GA03      | 2018                 |
| Physical Optics                                        | B Voc Optometry | MESKV/57/OP    | SDC1PO01      | 2018                 |
| Microbiology & Pharmacology                            | B Voc Optometry | MESKV/57/OP    | SDC1MP02      | 2018                 |
| Microbiology & Pharmacology Practical                  | B Voc Optometry | MESKV/57/OP    | SDC1MP04(P)   | 2018                 |
| General Anatomy & Physiology- Practical                | B Voc Optometry | MESKV/57/OP    | SDC1GA03 (P)  | 2018                 |
| Ocular Anatomy & Physiology                            | B Voc Optometry | MESKV/57/OP    | GEC20A06      | 2018                 |
| Geometrical Optics                                     | B Voc Optometry | MESKV/57/OP    | SDC2G005      | 2018                 |
| Biochemistry                                           | B Voc Optometry | MESKV/57/OP    | SDC2BC06      | 2018                 |
| Ocular Anatomy & Physiology-Practical                  | B Voc Optometry | MESKV/57/OP    | SDC20A07      | 2018                 |
| Internship/Project                                     | B Voc Optometry | MESKV/57/OP    | SDC2INT08 (P) | 2018                 |
| Ocular Disease                                         | B Voc Optometry | MESKV/57/OP    | GEC30D08      | 2018                 |
| Clinical Refraction                                    | B Voc Optometry | MESKV/57/OP    | GEC3R09       | 2018                 |
| Pathology & Immunology (General & Ocular)              | B Voc Optometry | MESKV/57/OP    | SDC3P109      | 2018                 |
| Ophthalmic Instrumentation & Procedure                 | B Voc Optometry | MESKV/57/OP    | SDC3P110      | 2018                 |
| Pathology & Immunology –Practical                      | B Voc Optometry | MESKV/57/OP    | SDC3P111(P)   | 2018                 |
| Ophthalmic Instrumentation-Practical                   | B Voc Optometry | MESKV/57/OP    | SDC30I12 (P)  | 2018                 |
| (EWM1B01) Environmental Science                        | B Voc Optometry | MESKV/57/OP    | GEC4ES11      | 2018                 |
| Community Optometry                                    | B Voc Optometry | MESKV/57/OP    | GEC4CO12      | 2018                 |
| Visual Optics                                          | B Voc Optometry | MESKV/57/OP    | GEC4VO13      | 2018                 |
| Dispensing Optics                                      | B Voc Optometry | MESKV/57/OP    | SDC4VO14      | 2018                 |
| Dispensing Optics-Practical                            | B Voc Optometry | MESKV/57/OP    | SDC4DO15      | 2018                 |
| Internship/ Project                                    | B Voc Optometry | MESKV/57/OP    | SDC4INT16(P)  | 2018                 |
| Nutrition                                              | B Voc Optometry | MESKV/57/OP    | GEC5NU13      | 2018                 |
| Geriatric & Pediatric Optometry                        | B Voc Optometry | MESKV/57/OP    | SDC5GP17      | 2018                 |
| Contact Lens                                           | B Voc Optometry | MESKV/57/OP    | SDC5CL18      | 2018                 |
| Binocular Vision                                       | B Voc Optometry | MESKV/57/OP    | SDC5BV19      | 2018                 |
| Low Vision Aid & Visual Rehabilitation                 | B Voc Optometry | MESKV/57/OP    | SDC5LV20 (P)  | 2018                 |

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|--------------------------------------------------------|-----------------|----------------|----------------|----------------------|
| Contact Lens & Binocular Vision-Practical              | B Voc Optometry | MESKV/57/OP    | SDC5LBV21 (P)  | 2018                 |
| Low Vision & Geriatric Pediatric Optometry –Practical  | B Voc Optometry | MESKV/57/OP    | SDC5LVG22 (P)  | 2018                 |
| Major Internship(900hrs)                               | B Voc Optometry | MESKV/57/OP    | SDC6INT23 (P)  | 2018                 |
| A03 Writing for Academic & Professional Success        | B Voc Optometry | MESKV/57/OP    | SDC2INT08 (Pr) | 2018                 |
| A04 Zeitgeist : Readings on Society and Cultures       | B Voc Optometry | MESKV/57/OP    | GEC4EG10       | 2018                 |
| A01 Transactions:Essential English Language Skills     | B Voc Optometry | MESKV/57/OP    | GEC1EG01       | 2018                 |
| MAL1A01(2) Malayalam Bhashayum Sahithyavum-I           | B Voc Optometry | MESKV/57/OP    | GEC1ML02       | 2018                 |
| ARB1A07(2)(LRP Pattern) –Essential Skills in Arabic    | B Voc Optometry | MESKV/57/OP    | GEC1AR02       | 2018                 |
| A07(3) Prose one act Play)                             | B Voc Optometry | MESKV/57/OP    | GEC1HD02       | 2018                 |
| A02 Ways with Words                                    | B Voc Optometry | MESKV/57/OP    | GEC2EG04       | 2018                 |
| MAL2A02 (2) Malayalam- Bhashayum Sahithyavum-II        | B Voc Optometry | MESKV/57/OP    | GEC2ML05       | 2018                 |
| ARB2A082(2)– Reading Arabic Prose & Poetry             | B Voc Optometry | MESKV/57/OP    | GEC2AR05       | 2018                 |
| A09 Poetry and Short Stories                           | B Voc Optometry | MESKV/57/OP    | GEC2HD05       | 2018                 |



UNIVERSITY GRANTS COMMISSION  
BAHADURSHAH ZAFAR MARG  
NEW DELHI – 110 002

Speed Post

F.No. 5-1/2018 (NSQF)

July, 2018

Sub: Approval of Programmes/ ~~courses~~ under NSQF

Dear Sir/Madam,

This is with reference to your proposal for introducing vocational courses under NSQF. I am directed to convey approval of the UGC for the following programmes/courses to be run by your institution under NSQF from the academic session 2018-19:

| Programme                                            |
|------------------------------------------------------|
| B.Voc                                                |
| 1. Health Care (Optometry and Ophthalmological Tech) |
| 2. Retail Management                                 |

It is further informed that the institution may admit 50 students per course, and appoint faculty and staff as per the provisions of the NSQF Guidelines.

You are requested to kindly ensure compliance of the terms and conditions/provisions as laid down in the Guidelines for providing Skill-based Education under National Skill Qualification Framework. You are also requested to convey your confirmation to start the course/s from the academic session 2018-19 along with the course-wise actual intake of students to UGC at the earliest.

With regards,

Yours faithfully,

(Mriganka Sekhar Sarma)  
Education Officer

Registrar/Principal/Nodal Officer  
MES Keveeyam College,  
Valanchery, Malappuram,  
Distt- Kerala-676552.



UNIVERSITY OF CALICUT

Abstract

Additional affiliation to new UGC aided B.Voc programmes for the academic year 2018-19 at various colleges in Thrissur, Malappuram & Wayanad districts under the University of Calicut - sanctioned - orders issued.

CDC-D

U O No. 957/2019/Admn

Dated, Calicut University.P.O, 22.01.2019

- Read:-1. Various letters received from the University Grants Commission.  
2. Applications for granting new B.Voc programmes, from the Principals of various colleges concerned.  
3. Letter No. 81819/CDC--D-SO/2014/Admn dated 04.10.2018, 15.10.2018 & 24.10.2018.  
4. Letter No. GS3-3559/2018 dated 31.10.2018 from the Principal Secretary to the Governor.  
5. Reports received from District Level Inspection Committees concerned.  
6. Letter No. 81819/CDC--D-SO/2014/Admn dated 09.11.2018.  
7. G.O.(Ms)No.318/2018/HEDN dated 31/12/2018.  
8. Applications for provisional affiliation to new B.Voc programmes, from the Principals of the colleges concerned.

ORDER

The University Grants Commission vide paper read as first has informed the granting of approval for the proposal submitted by various colleges, for introducing new B.Voc programmes under National Skill Qualification Framework (NSQF) from the academic year 2018-19, in compliance with the terms and conditions laid down in the guidelines for providing Skill-based Education under National Skill Qualification Framework (NSQF).

2. Based on the approval from the UGC, the Principals of concerned colleges, vide the papere read as second, have submitted applications in the statutory form and requested to issue necessary orders for granting provisional affiliation to these programmes from the 2018-19 academic year. The Principals of Farook College, Kozhikode and WMO Arts & Science College, Muttill, Wayanad have informed their unwillingness to start the programme during the academic year 2018-19.

3. The belated submission of applications require the issuance of a notification, by the Hon'ble Chancellor, under the provisions in Chapter XVIII of the CU Act 1975, sub section (2) granting extension of time upto the date proposed by the University for consideration of the application for starting the programme. As per papers read as third above, the Secretary to the Chancellor was requested to consider the belated applications and to issue a notification granting extension of time for consideration of the applications for affiliation of the new programmes for the academic year 2018-19.

4. Vide reference fourth, the Hon'ble Chancellor is pleased to issue a notification, extending the period up to 15.11.2018, within which the Syndicate shall consider the application for granting additional affiliation to the new programmes at these colleges for the academic year 2018-19.

5. The DLIC for the districts Thrissur, Malappuram & Wayanad have conducted inspection at these

|    |                                                     |                                                          |    |            |
|----|-----------------------------------------------------|----------------------------------------------------------|----|------------|
| 6  | Vimala College,<br>Thrissur (Autonomous)            | Web Technology                                           | 50 | Malappuram |
|    |                                                     | Food Processing                                          | 50 |            |
| 8  | St. Joseph's College,<br>Irinjalakuda, (Autonomous) | Applied Microbiology and Forensic Science                | 50 |            |
|    |                                                     | Malayalam and Manuscript Management                      | 50 |            |
| 7  | MES Asmabi College, P.Vemballor                     | Logistics Management                                     | 50 |            |
|    |                                                     | Digital Film Production                                  | 50 |            |
|    |                                                     | Fish Processing Technology                               | 50 |            |
|    |                                                     | Tourism and Hospitality                                  | 50 |            |
| 8  | Sullamusallam Science College,<br>Areacode          | Accounting and Taxation                                  | 50 |            |
| 9  | Dr. Ghafoor Memorial MES Mampad<br>College, Mampad  | Food Technology                                          | 50 |            |
| 10 | MES KVM College, Valanchery                         | Health Care (Optometry &<br>Ophthalmological Technology) | 50 |            |
|    |                                                     | Retail Management                                        | 50 |            |
| 11 | Pazhassi Raja College, Pulpally,<br>Wayanad         | Agriculture                                              | 50 | Wayanad    |
|    |                                                     | Food Science                                             | 50 |            |

(ii) Permission is granted to Sullamusallam Science College, Areacode for starting the classes from the academic year 2019-20, as requested by the Principal.

(ii) The duration of the Semesters of the B.Voc courses started during the academic year 2018-19 itself, will be scheduled separately to ensure mandatory working days in all semesters and admission process to these programmes shall be completed by conventional methods. Once the admissions are completed, the colleges shall register the students with CAP and the Principal shall contact DoA for further procedures in this regard.

(iii) Admission process shall be completed as per the admission schedule detailed below.

| Sl No. | Particulars                                                                                                         | Date       |
|--------|---------------------------------------------------------------------------------------------------------------------|------------|
| 1      | Date of formal orders of Provisional Affiliation                                                                    | 22.01.2019 |
| 2      | Date of issuance of notification for admission and press release in this regard                                     | 23.01.2019 |
| 3      | Last date for receipt / issue of applications                                                                       | 30.01.2019 |
| 4      | Date of publication of rank list(Sure list & supplementary list) & Intimation of students via phone, SMS and e-mail | 01.02.2019 |
| 5      | Date of admission                                                                                                   | 02.02.2019 |
| 6      | Date of commencement of class                                                                                       | 04.02.2019 |
| 7      | Date of closure of admission                                                                                        | 08.02.2019 |

11. The provisional affiliation granted shall be subject to the following general conditions :-

(a) Selection and admission shall be made only on the basis of the rules and regulations of the University/Government and on the basis of the directions issued by the University/Government from time to time, failing which the affiliation granted will automatically be cancelled.

(b) In the light of the direction of the Supreme Court of India in W P (C) 656/1998, the institution shall

# SEMESTER I

| C.No. | Paper Code  | Paper Title                                                                                      | GEN/<br>SKILL | Credit | Marks    |          |       | Hours per Week |           |       |
|-------|-------------|--------------------------------------------------------------------------------------------------|---------------|--------|----------|----------|-------|----------------|-----------|-------|
|       |             |                                                                                                  |               |        | Internal | External | Total | Theory         | Practical | Total |
| 1.1   | GEC1EG01    | Transactions Essential English Language Skills A01                                               | GEN           | 4      | 20       | 80       | 100   | 4              |           | 4     |
| 1.2   | GEC1ML02    | Malayalam –BashayumSahithyavum-I MAL1A01(2).                                                     | GEN           | 4      | 20       | 80       | 100   | 4              |           | 4     |
|       | GEC1AR02    | Communication Skills in Arabic ARB1A07(1)                                                        |               |        |          |          |       |                |           |       |
|       | GEC1HD02    | Prose and One Act Plays A07                                                                      |               |        |          |          |       |                |           |       |
| 1.3   | GEC1EC03    | E-Commerce and General Informatics                                                               | GEN           | 4      | 20       | 80       | 100   | 4              |           | 4     |
| 1.4   | SDC1RM01    | Introduction to Retail Store Operations- Health Safety, Security, Team & Organizational Dynamics | SKILL         | 5      | 20       | 80       | 100   | 5              |           | 5     |
| 1.5   | SDC1RM02    | Basic Business Communication Skills                                                              | SKILL         | 4      | 20       | 80       | 100   | 4              |           | 4     |
| 1.6   | SDC1RM03(P) | Lab on Business Communication Skills(P)                                                          | SKILL         | 4      | 20       | 80       | 100   |                | 4         | 4     |
| 1.7   | SDC1RM04(P) | Lab on Retail Selling Skills- I(P)                                                               | SKILL         | 5      | 20       | 80       | 100   |                | 5         | 5     |
| Total |             |                                                                                                  |               |        | 140      | 560      | 700   | 21             | 9         | 30    |

Qualifications Pack – RAS/Q0101 Retail Store Operations Assistant

## SEMESTER II

| C. No. | Paper Code   | Paper Title                                     | GEN/<br>SKILL | Credit | Marks    |          |       | Hours per Week |           |
|--------|--------------|-------------------------------------------------|---------------|--------|----------|----------|-------|----------------|-----------|
|        |              |                                                 |               |        | Internal | External | Total | Theory         | Practical |
| 2.1    | GEC2EG04     | Ways with Words A02                             | GEN           | 4      | 20       | 80       | 100   | 4              | 4         |
| 2.2    | GEC2ML05     | Malayalam –BashayumSahithyavum-II<br>MAL2A02(2) | GEN           | 4      | 20       | 80       | 100   | 4              | 4         |
|        | GEC2AR05     | Literature in Arabic ARB2A08(2)                 |               |        |          |          |       |                |           |
|        | GEC2HD05     | Poetry and Short Stories A09                    |               |        |          |          |       |                |           |
| 2.3    | GEC2FA06     | Financial AccountingBC2B02                      | GEN           | 4      | 20       | 80       | 100   | 4              | 4         |
| 2.4    | SDC2RM05     | Retail Logistics Management                     | SKILL         | 4      | 20       | 80       | 100   | 4              | 4         |
| 2.5    | SDC2RM06     | Retail Shopper Behavior                         | SKILL         | 5      | 20       | 80       | 100   | 4              | 1         |
| 2.6    | SDC2RM07(P)  | Lab on Retail Selling Skills II (P)             | SKILL         | 4      | 20       | 80       | 100   |                | 4         |
| 2.7    | SDC2RM08(Pr) | Internship/Project (Pr)                         | SKILL         | 5      |          | 100      | 100   |                | 5         |
|        |              | <b>Total</b>                                    |               | 30     | 140      | 560      | 700   | 20             | 10        |
|        |              |                                                 |               |        |          |          |       |                | 30        |

Qualifications Pack – RAS/Q0102

Retail Cashier

## SEMESTER III

| C. No. | Paper Code  | Paper Title                                        | GEN/<br>SKILL | Credit | Marks    |          |       | Hours per Week |           |       |
|--------|-------------|----------------------------------------------------|---------------|--------|----------|----------|-------|----------------|-----------|-------|
|        |             |                                                    |               |        | Internal | External | Total | Theory         | Practical | Total |
| 3.1    | GEC3EG07    | Writing for Academics and professional Success A03 | GEN           | 4      | 20       | 80       | 100   | 4              |           | 4     |
| 3.2    | GEC3PS08    | Personality and Soft Skills Development ✓          | GEN           | 4      | 20       | 80       | 100   | 4              |           | 4     |
| 3.3    | GEC3HR09    | Human Resources Management BC3C03                  | GEN           | 4      | 20       | 80       | 100   | 4              |           | 4     |
| 3.4    | SDC3RM09    | Retail Stores & Operations Management              | SKILL         | 4      | 20       | 80       | 100   | 4              |           | 4     |
| 3.5    | SDC3RM10    | Store Display and Visual Merchandising ✓           | SKILL         | 5      | 20       | 80       | 100   | 4              | 1         | 5     |
| 3.6    | SDC3RM11(P) | Computerised Accounting (P)                        | SKILL         | 5      | 20       | 80       | 100   |                | 5         | 5     |
| 3.7    | SDC3RM12(P) | Lab on Store Display and Customer Service(P)       | SKILL         | 4      | 20       | 80       | 100   |                | 4         | 4     |
| Total  |             |                                                    |               | 30     | 140      | 560      | 700   | 20             | 10        | 30    |

## Qualifications Pack – RAS/Q0103 Retail Trainee Associate

### SEMESTER IV

| C. No. | Paper Code   | Paper Title                                     | GEN/<br>SKILL | Credit | Marks    |          |       | Hours per Week |           |
|--------|--------------|-------------------------------------------------|---------------|--------|----------|----------|-------|----------------|-----------|
|        |              |                                                 |               |        | Internal | External | Total | Theory         | Practical |
| 4.1    | GEC4EG10     | Zeitgeist: Readings on Contemporary Culture A04 | GEN           | 4      | 20       | 80       | 100   | 4              | 4         |
| 4.2    | GEC4ED11     | Entrepreneurship DevelopmentBC4A13 /            | GEN           | 4      | 20       | 80       | 100   | 4              | 4         |
| 4.3    | GEC4QT12     | Quantitative Techniques for Business BC4C04     | GEN           | 4      | 20       | 80       | 100   | 4              | 4         |
| 4.4    | SDC4RM13     | Elements of Salesmanship                        | SKILL         | 4      | 20       | 80       | 100   | 4              | 4         |
| 4.5    | SDC4RM14     | Retail Advertising & Sales Promotion            | SKILL         | 4      | 20       | 80       | 100   | 4              | 4         |
| 4.6    | SDC4RM15(P)  | Computer Practical -I (MS Office) (P)           | SKILL         | 5      | 20       | 80       | 100   |                | 5         |
| 4.7    | SDC4RM16(Pr) | Internship/Project (Pr)                         | SKILL         | 5      |          | 100      | 100   |                | 5         |
| Total  |              |                                                 |               | 30     | 140      | 560      | 700   | 20             | 10        |
|        |              |                                                 |               |        |          |          |       |                | 30        |

**Qualifications Pack – RAS/Q0104Retail Sales Associate**

### SEMESTER V

| C. No.                                                     | Paper Code  | Paper Title                                              | GEN/<br>SKILL | Credit | Marks         |          |       | Hours per Week |           |
|------------------------------------------------------------|-------------|----------------------------------------------------------|---------------|--------|---------------|----------|-------|----------------|-----------|
|                                                            |             |                                                          |               |        | Internal<br>I | External | Total | Theory         | Practical |
| 5.1                                                        | GEC5EV13    | Conference and Event Management                          | GEN           | 4      | 20            | 80       | 100   | 4              | 4         |
| 5.2                                                        | GEC5MM14    | Mall Management                                          | GEN           | 4      | 20            | 80       | 100   | 4              | 4         |
| 5.3                                                        | SDC5RM17    | Retail Planning                                          | SKILL         | 4      | 20            | 80       | 100   | 4              | 4         |
| 5.4                                                        | SDC5RM18    | Retail Targets & Locations                               | SKILL         | 4      | 20            | 80       | 100   | 4              | 4         |
| 5.5                                                        | SDC5RM19    | Retail Distribution Management, Stores Layout And Design | SKILL         | 4      | 20            | 80       | 100   | 4              | 4         |
| 5.6                                                        | SDC5RM20(P) | Computer Practical-II (MS Office) (P)                    | SKILL         | 5      | 20            | 80       | 100   |                | 5         |
| 5.7                                                        | SDC5RM21(P) | Lab on Advertisement and Sales Promotion(P)              | SKILL         | 5      | 20            | 80       | 100   |                | 5         |
| Total                                                      |             |                                                          |               | 30     | 140           | 560      | 700   | 20             | 10        |
| Qualifications Pack – RAS/Q00202 Business Builder/Retailer |             |                                                          |               |        |               |          |       |                |           |

### SEMESTER VI

| C. No.                                                | Paper Code | Paper Title                     | GEN/<br>SKILL | Credit | Marks    |          |       | Hours per Week |           |
|-------------------------------------------------------|------------|---------------------------------|---------------|--------|----------|----------|-------|----------------|-----------|
|                                                       |            |                                 |               |        | Internal | External | Total | Theory         | Practical |
| 6.1                                                   | SDC6RM22   | Internship & Project (900 Hrs.) | GEN           | 30     |          | 700      | 700   |                | 900       |
| Total                                                 |            |                                 |               | 30     |          |          | 700   |                | 900       |
| Qualifications Pack – RAS/Q00107 Retail Store Manager |            |                                 |               |        |          |          |       |                |           |

# DETAILED CURRICULUM

| SEMESTER I        |                |                                                        |        |       |     |     |        |    |       |
|-------------------|----------------|--------------------------------------------------------|--------|-------|-----|-----|--------|----|-------|
| C.No              | Course Code    | Course Name                                            | Credit | Marks |     |     | Hrs/wk |    |       |
|                   |                |                                                        |        | Int   | Ext | Tot | T      | P  | Total |
| 1.1               | GEC1EG01       | AO1 Transactions<br>Essential English Language Skills  | 4      | 20    | 80  | 100 | 4      |    | 4     |
| 1.2               | GEC1ML02       | MAL1A01(2) Malayalam Bhashayum<br>Sahithyavum-I        | 4      | 20    | 80  | 100 | 4      |    | 4     |
|                   | GEC1AR02       | ARB1A07(2)(LRP Pattern) –Essential<br>Skills in Arabic |        |       |     |     |        |    |       |
|                   | GEC1HD02       | A07(3) Prose and one act plays                         |        |       |     |     |        |    |       |
| 1.3               | GEC1GA03       | General Anatomy & Physiology                           | 4      | 20    | 80  | 100 | 4      |    | 4     |
| 1.4               | SDC1PO01       | Physical Optics                                        | 4      | 20    | 80  | 100 | 4      |    | 4     |
| 1.5               | SDC1MP02       | Microbiology & Pharmacology                            | 4      | 20    | 80  | 100 | 4      |    | 4     |
| 1.6               | SDC1GA03 (P)   | General Anatomy & Physiology-<br>Practical             | 5      | 20    | 80  | 100 |        | 5  | 5     |
| 1.7               | SDC1MP04 (P)   | Microbiology & Pharmacology -<br>Practical             | 5      | 20    | 80  | 100 |        | 5  | 5     |
| Semester I Total  |                |                                                        | 30     |       |     | 700 | 20     | 10 | 30    |
| SEMESTER II       |                |                                                        |        |       |     |     |        |    |       |
| C.No              | Course Code    | Course Name                                            | Credit | Marks |     |     | Hrs/wk |    |       |
|                   |                |                                                        |        | Int   | Ext | Tot | T      | P  | Total |
| 2.1               | GEC2EG04       | A02 Ways with Words                                    | 4      | 20    | 80  | 100 | 4      |    | 4     |
| 2.2               | GEC2ML05       | MAL2A02 (2) Malayalam- Bhashayum<br>Sahithyavum-II     | 4      | 20    | 80  | 100 | 4      |    | 4     |
|                   | GEC2AR05       | ARB2A082(2)– Reading Arabic Prose<br>& Poetry          |        |       |     |     |        |    |       |
|                   | GEC2HD05       | A09 Poetry and Short Stories                           |        |       |     |     |        |    |       |
| 2.3               | GEC2OA06       | Ocular Anatomy & Physiology                            | 4      | 20    | 80  | 100 | 4      |    | 4     |
| 2.4               | SDC2GO05       | Geometrical Optics                                     | 4      | 20    | 80  | 100 | 4      |    | 4     |
| 2.5               | SDC2BC06       | Biochemistry                                           | 5      | 20    | 80  | 100 | 5      |    | 5     |
| 2.6               | SDC2OA07 (P)   | Ocular Anatomy & Physiology-<br>Practical              | 5      | 20    | 80  | 100 |        | 5  | 5     |
| 2.7               | SDC2INT08 (Pr) | Internship/Project                                     | 4      | 0     | 100 | 100 |        | 4  | 4     |
| Semester II Total |                |                                                        | 30     |       |     | 700 | 21     | 9  | 30    |

Qualification Pack-HSS/Q8601 -Basic Health Volunteer (Equivalent to ASHA)

| SEMESTER III       |               |                                                  |        |       |     |     |        |    |       |
|--------------------|---------------|--------------------------------------------------|--------|-------|-----|-----|--------|----|-------|
| C.No               | Course Code   | Course Name                                      | Credit | Marks |     |     | Hrs/wk |    |       |
|                    |               |                                                  |        | Int   | Ext | Tot | T      | P  | Total |
| 3.1                | GEC3EG07      | A03 Writing for academic & professional success  | 4      | 20    | 80  | 100 | 4      |    | 4     |
| 3.2                | GEC3OD08      | Ocular Disease                                   | 4      | 20    | 80  | 100 | 4      |    | 4     |
| 3.3                | GEC3CR09      | Clinical Refraction                              | 4      | 20    | 80  | 100 | 4      |    | 4     |
| 3.4                | SDC3PI09      | Pathology & Immunology (General & Ocular)        | 4      | 20    | 80  | 100 | 4      |    | 4     |
| 3.5                | SDC3OI10      | Ophthalmic Instrumentation & Procedure           | 4      | 20    | 80  | 100 | 4      |    | 4     |
| 3.6                | SDC3PI11 (P)  | Pathology & Immunology –Practical                | 4      | 20    | 80  | 100 |        | 4  | 4     |
| 3.7                | SDC3OI12 (P)  | Ophthalmic Instrumentation-Practical             | 6      | 20    | 80  | 100 |        | 6  | 6     |
| Semester III Total |               |                                                  | 30     |       |     | 700 | 20     | 10 | 30    |
| SEMESTER IV        |               |                                                  |        |       |     |     |        |    |       |
| C.No               | Course Code   | Course Name                                      | Credit | Marks |     |     | Hrs/wk |    |       |
|                    |               |                                                  |        | Int   | Ext | Tot | T      | P  | Total |
| 4.1                | GEC4EG10      | AO4 Zeitgeist : Readings on society and cultures | 4      | 20    | 80  | 100 | 4      |    | 4     |
| 4.2                | GEC4ES11      | (EWM1B01) Environmental Science                  | 4      | 20    | 80  | 100 | 4      |    | 4     |
| 4.3                | GEC4CO12      | Community Optometry                              | 4      | 20    | 80  | 100 | 4      |    | 4     |
| 4.4                | SDC4VO13      | Visual Optics                                    | 4      | 20    | 80  | 100 | 4      |    | 4     |
| 4.5                | SDC4DO14      | Dispensing Optics                                | 5      | 20    | 80  | 100 | 5      |    | 5     |
| 4.6                | SDC4DO15(P)   | Dispensing Optics-Practical                      | 5      | 20    | 80  | 100 |        | 5  | 5     |
| 4.7                | SDC4INT16(Pr) | Internship/ Project                              | 4      | 0     | 100 | 100 |        | 4  | 4     |
| Semester IV Total  |               |                                                  | 30     |       |     | 700 | 21     | 9  | 30    |

Qualification Pack-HSS/Q3001- Vision Technician.

| SEMESTER V         |                |                                                       |        |       |     |      |        |     |       |
|--------------------|----------------|-------------------------------------------------------|--------|-------|-----|------|--------|-----|-------|
| C.No               | Course Code    | Course Name                                           | Credit | Marks |     |      | Hrs/wk |     |       |
|                    |                |                                                       |        | Int   | Ext | Tot  | T      | P   | Total |
| 5.1                | GEC5NU13       | Nutrition                                             | 4      | 20    | 80  | 100  | 4      |     | 4     |
| 5.2                | SDC5GP17       | Geriatric & Pediatric Optometry                       | 4      | 20    | 80  | 100  | 4      |     | 4     |
| 5.3                | SDC5CL18       | Contact Lens                                          | 4      | 20    | 80  | 100  | 4      |     | 4     |
| 5.4                | SDC5BV19       | Binocular Vision                                      | 4      | 20    | 80  | 100  | 4      |     | 4     |
| 5.5                | SDC5LV20       | Low Vision Aid & Visual Rehabilitation                | 4      | 20    | 80  | 100  | 4      |     | 4     |
| 5.6                | SDC5CLBV21 (P) | Contact Lens & Binocular Vision-Practical             | 6      | 20    | 80  | 100  |        | 6   | 6     |
| 5.7                | SDC5LVGP22 (P) | Low Vision & Geriatric Pediatric Optometry –Practical | 4      | 20    | 80  | 100  |        | 4   | 4     |
| Semester III Total |                |                                                       | 30     |       |     | 700  | 20     | 10  | 30    |
| SEMESTER VI        |                |                                                       |        |       |     |      |        |     |       |
| C.No               | Course Code    | Course Name                                           | Credit | Marks |     |      | Hrs/wk |     |       |
|                    |                |                                                       |        | Int   | Ext | Tot  | T      | P   | Tot   |
| 6.1                | SDC6INT23 (Pr) | Major Internship (900 hrs.)                           | 30     | 0     | 100 | 100  |        | 900 | 900   |
| Semester VI Total  |                |                                                       | 30     |       |     | 100  |        |     | 900   |
| Grant Total        |                |                                                       | 180    |       |     | 3600 |        |     |       |

Qualification Pack-HSS/Q0401- Optometrist

# UNIVERSITY OF CALICUT



**B. Voc. Degree Programme in**

**OPTOMETRY AND  
OPHTHALMOLOGICAL  
TECHNIQUES**

**SCHEME AND SYLLABUS**

**For General and Skill Papers**

**2018 ADMISSION ONWARDS**

**BOARD OF STUDIES IN PHYSICS  
CALICUT UNIVERSITY  
THENHIPALAM, KERALA, 673 635, INDIA**

## **PREAMBLE**

The University Grants Commission (UGC) has launched a scheme on skills development based higher education as part of college/university education, leading to Bachelor of Vocation (B.Voc.) Degree with multiple exits such as Diploma/Advanced Diploma under the NSQF. The B.Voc. programme is focused on universities and colleges providing undergraduate studies which would also incorporate specific job roles and their NOSs alongwith broad based general education. This would enable the graduates completing B.Voc. to make a meaningful participation in accelerating India's economy by gaining appropriate employment, becoming entrepreneurs and creating appropriate knowledge.

The B. Voc. Programme is designed to bridge the potential skill gap identified. The curriculum in each of the years of the programme would be a suitable mix of general education and skill development components. The general education component provides emphasis to Communication skill, Presentation skill, Health and Safety, Industrial Psychology, Environmental awareness, Entrepreneurship development and other relevant subjects in the field. General Education Components should not exceed 40% of the curriculum. Skill Development Component should match the skill gap identified at least 50% of Skill Development Component should be allotted to practical and can grow up to 60% based on the nature of the course. The practical component can be carried out in the college and/or the industry partner premises.

B.Voc. Optometry and Ophthalmological Techniques, is a graduate programme which includes various branches of Applied Physics and Biology. In the present epoch, this course has immense relevance, in the field of education and occupation. The course has been designed to mould the best optometrists. Eyes are the greatest gift of god to human beings. For what the beautiful world would be if one could not see that. Every third blind person is an Indian and there are many others suffering from defective eye problems. Cataract, Diabetic retinopathy and macular degeneration have become common diseases among aged people. Youth also suffer several vision problems. There are many specialty hospitals in Kerala which offer treatment of ophthalmic diseases. Job opportunities for trained optometrists are in plenty in the state.

An effective science education can be imparted at the undergraduate level only by revamping the curriculum according to the needs and developments of the modern society from time to time. To achieve this goal, the curriculum should be restructured by giving emphasis on various aspects such as the creativity of students, knowledge of current developments in the discipline, awareness of environmental impacts due to the development of science and technology, and the skills essential for handling equipments and instruments in laboratories and industries. The units of the syllabus are well defined. The number of contact hours required for each unit is also given. A list of reference books is provided at the end of each course.

## **AIMS**

This curriculum has been prepared with the objective of giving sound knowledge and understanding optometry and ophthalmological techniques to undergraduate students. The goal of the syllabus is to equip students with the potential to contribute to academic and industrial environments. This curriculum will expose students to various fields of optometry and develop interest in related disciplines.

## **BROAD OBJECTIVE**

The B. Voc courses are designed with the following objectives,

- To provide judicious mix of skills relating to a profession and appropriate content of General Education.
- To ensure that the students have adequate knowledge and skills.
- To understand basic facts and concepts in optometry and ophthalmological techniques
- To develop skills in the proper handling of optometric instruments.
- To be exposed to the different processes used in industries and their applications.
- To provide flexibility to the students by means of pre-defined entry and multiple exit points.
- To integrate NSQF within the undergraduate level of higher education in order to enhance employability of the graduates and meet industry requirements. Such graduates apart from meeting the needs of local and national industry are also expected to be equipped to become part of the global workforce.

## **SEMESTER**

A term consisting of 90 working days including examination days distributed over a minimum of 18 weeks of 5 working days consisting of six hours. Total credits in a semester: 30 (equivalent to 450 hours). For final semester internship, the total duration is 900 hours.

## **ELIGIBILITY AND INDEX CALCULATION**

The admission to B Voc programme will be as per the rules and regulations laid out by the University of Calicut for UG admissions. Candidates who have passed pre degree or plus two course(HSE/VHSE/Similar) in any stream with not less than 45% marks in aggregate shall be eligible to apply for admission to the B.Voc Optometry and ophthalmological techniques programme. (No age limit).

### **Index mark calculation:**

Plus two marks (HSE, out of 1200. Other streams should be converted to this appropriately). Additional marks are as follows:

1. 50% of the marks scored (in percentage) for Physics at +2 level
2. 50% of the marks scored (in percentage) for Biology at +2 level
3. 25% of the marks scored (in percentage) for Chemistry/Maths/Computer Science at +2 level
4. +2/ VHSE/ CBSE/ Diploma/ Certificate Course - studied ophthalmology related subjects – 10 marks.
5. NSS-10
6. NCC- as per the A,B,C certificate (5,10,15)

### **RESERVATION/QUOTA**

A maximum of 50 students can be admitted to one B. Voc programme. The students can be admitted only to the first semester (except for diploma holders). No students are admitted directly to the Third and Fifth semester in any circumstance except for diploma holders. Diploma holders may be permitted to third semester directly as mentioned above.

The reservation rules for Government/Aided Colleges are as same as that of the regular UG programmes conducted in colleges affiliated to this university.

### **LEVELS OF AWARDS**

B. Voc is a programme with multiple exits. Following table shows the various certificates and their duration.

| <b>Awards</b>    | <b>Duration</b> |
|------------------|-----------------|
| Diploma          | 2semester       |
| Advanced diploma | 4 Semester      |
| B Voc Degree     | 6 Semester      |

### **ASSESSMENT OF STUDENTS**

Assessment of students for each subject will be done by internal continuous assessment and Semester-End examinations. This dual mode assessment will be applicable to both Theory and Practical courses except for internship and project. Total marks in theory course reflect 80 marks external and 20 marks internal assessments. The mark division for practical courses is 20 marks internal and 80 marks external. For internship and project, there is no internal assessment

| SI No | Courses             | Internal | External |
|-------|---------------------|----------|----------|
| 1     | Theory              | 20       | 80       |
| 2.    | Practical           | 20       | 80       |
| 3.    | Internship/ Project | 0        | 100      |

## INTERNAL EVALUATION

20% of the total marks in each course are for internal evaluation. The colleges shall send only the marks obtained for internal examination to the university

The mark distribution to award internal continuous assessment marks for **theory** subject should be as follows:

| Assessment                                                                                                                                                | Mark |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Test papers (minimum two, best two out of three is preferred)                                                                                             | 10   |
| Assignments (minimum two) such as home work, problem solving, group discussions, quiz, literature survey, seminar, term-project, software exercises, etc. | 5    |
| Regularity in the class                                                                                                                                   | 5    |

The mark distribution to award internal continuous assessment marks for **practical** subject should be as follows:

| Assessment                             | Mark |
|----------------------------------------|------|
| Evaluation in the lab and Rough Record | 10   |
| End-semester Test                      | 4    |
| Viva                                   | 1    |
| Regularity                             | 5    |

### Note:

No candidate will be permitted to attend the end-semester practical examination unless he/she produces certified record of the laboratory. Full credit for regularity in the class can be given only if the candidate has secured minimum 90% attendance in the subject. Attendance evaluation for each course is as follows

| % of attendance | Marks |
|-----------------|-------|
| Above 90%       | 5     |
| 85-89%          | 4     |
| 80-84%          | 3     |
| 76-79%          | 2     |
| 75%             | 1     |

## PATTERN OF QUESTIONS FOR SEMESTER-END EXAMINATIONS

The question papers of Semester-End examinations of theory subjects shall be able to perform achievement testing of the students in an effective manner. Duration of Semester- End examinations will be 3 hours. The pattern of questions for theory subjects shall be as follows:

### For Theory

| Section                     | Total No.of questions | No.of question to be answered | Marks for each question | Total marks |
|-----------------------------|-----------------------|-------------------------------|-------------------------|-------------|
| A:Very short/Objective Type | 10                    | 10                            | 1                       | 10          |
| B:Shortanswer type          | 12                    | 8                             | 2                       | 16          |
| C: Short essay type         | 9                     | 6                             | 4                       | 24          |
| D: Essay type               | 4                     | 2                             | 15                      | 30          |
| TOTAL                       |                       |                               |                         | 80          |

### For Practical:

| Marks Distribution             | Total marks |
|--------------------------------|-------------|
| Theory/ Algorithm/Flow diagram | 20          |
| Implementation                 | 30          |
| Result/Output                  | 10          |
| Record                         | 10          |
| Viva                           | 10          |
| Total                          | 80          |

### Mark distribution for internship:

| Distribution                          | Marks |
|---------------------------------------|-------|
| Content and relevance or Dissertation | 60    |
| Viva                                  | 20    |
| Presentation                          | 20    |

### **GRADING- INDIRECT GRADING SYSTEM**

Indirect Grading System based on a 7 point scale is used to evaluate the performance of students..

| <b>Marks scored</b> | <b>Grade</b> | <b>Remarks</b> |
|---------------------|--------------|----------------|
| 90 and Above        | A+           | Outstanding    |
| 80 to 89            | A            | Excellent      |
| 70 to 79            | B            | Very Good      |
| 60 to 69            | C            | Good           |
| 50 to 59            | D            | Satisfactory   |
| 40 to 49            | E            | Adequate       |
| Below 40            | F            | Failure        |

# CONTENTS

| SL.NO | CONTENTS                                                          | PAGE NUMBER |
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| 3     | Semester I                                                        | 12-16       |
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| 5     | Semester III                                                      | 21-25       |
| 6     | Semester IV                                                       | 26-31       |
| 7     | Semester V                                                        | 32-37       |
| 8     | Semester VI                                                       | 38          |

## COURSE STRUCTURE

### CREDIT DISTRIBUTION

| Semester     | Common Course |                     | General Component | Skill Component | Total      |
|--------------|---------------|---------------------|-------------------|-----------------|------------|
|              | English       | Additional Language |                   |                 |            |
| I            | 4             | 4                   | 4                 | 4+4+5+5=18      | 30         |
| II           | 4             | 4                   | 4                 | 4+5+5+4=18      | 30         |
| III          | 4             | -                   | 4+4=8             | 4+4+4+6=18      | 30         |
| IV           | 4             | -                   | 4+4=8             | 4+5+5+4=18      | 30         |
| V            | -             | -                   | 4                 | 4+4+4+4+6+4=26  | 30         |
| VI           | -             | -                   | -                 | 30              | 30         |
| <b>Total</b> | <b>16</b>     | <b>8</b>            | <b>28</b>         | <b>128</b>      | <b>180</b> |

# DETAILED CURRICULUM

## SEMESTER I

| C.No                    | Course Code  | Course Name                                            | Credit    | Marks |     |            | Hrs/wk    |           |           |
|-------------------------|--------------|--------------------------------------------------------|-----------|-------|-----|------------|-----------|-----------|-----------|
|                         |              |                                                        |           | Int   | Ext | Tot        | T         | P         | Total     |
| 1.1                     | GEC1EG01     | AO1 Transactions<br>Essential English Language Skills  | 4         | 20    | 80  | 100        | 4         |           | 4         |
| 1.2                     | GEC1ML02     | MAL1A01(2) Malayalam Bhashayum<br>Sahithyavum-I        | 4         | 20    | 80  | 100        | 4         |           | 4         |
|                         | GEC1AR02     | ARB1A07(2)(LRP Pattern) –Essential<br>Skills in Arabic |           |       |     |            |           |           |           |
|                         | GEC1HD02     | A07(3) Prose and one act plays                         |           |       |     |            |           |           |           |
| 1.3                     | GEC1GA03     | General Anatomy & Physiology                           | 4         | 20    | 80  | 100        | 4         |           | 4         |
| 1.4                     | SDC1PO01     | Physical Optics                                        | 4         | 20    | 80  | 100        | 4         |           | 4         |
| 1.5                     | SDC1MP02     | Microbiology & Pharmacology                            | 4         | 20    | 80  | 100        | 4         |           | 4         |
| 1.6                     | SDC1GA03 (P) | General Anatomy & Physiology-<br>Practical             | 5         | 20    | 80  | 100        |           | 5         | 5         |
| 1.7                     | SDC1MP04 (P) | Microbiology & Pharmacology -<br>Practical             | 5         | 20    | 80  | 100        |           | 5         | 5         |
| <b>Semester I Total</b> |              |                                                        | <b>30</b> |       |     | <b>700</b> | <b>20</b> | <b>10</b> | <b>30</b> |

## SEMESTER II

| C.No                     | Course Code    | Course Name                                        | Credit    | Marks |     |            | Hrs/wk    |          |           |
|--------------------------|----------------|----------------------------------------------------|-----------|-------|-----|------------|-----------|----------|-----------|
|                          |                |                                                    |           | Int   | Ext | Tot        | T         | P        | Total     |
| 2.1                      | GEC2EG04       | A02 Ways with Words                                | 4         | 20    | 80  | 100        | 4         |          | 4         |
| 2.2                      | GEC2ML05       | MAL2A02 (2) Malayalam- Bhashayum<br>Sahithyavum-II | 4         | 20    | 80  | 100        | 4         |          | 4         |
|                          | GEC2AR05       | ARB2A082(2)– Reading Arabic Prose<br>& Poetry      |           |       |     |            |           |          |           |
|                          | GEC2HD05       | A09 Poetry and Short Stories                       |           |       |     |            |           |          |           |
| 2.3                      | GEC2OA06       | Ocular Anatomy & Physiology                        | 4         | 20    | 80  | 100        | 4         |          | 4         |
| 2.4                      | SDC2GO05       | Geometrical Optics                                 | 4         | 20    | 80  | 100        | 4         |          | 4         |
| 2.5                      | SDC2BC06       | Biochemistry                                       | 5         | 20    | 80  | 100        | 5         |          | 5         |
| 2.6                      | SDC2OA07 (P)   | Ocular Anatomy & Physiology-<br>Practical          | 5         | 20    | 80  | 100        |           | 5        | 5         |
| 2.7                      | SDC2INT08 (Pr) | Internship/Project                                 | 4         | 0     | 100 | 100        |           | 4        | 4         |
| <b>Semester II Total</b> |                |                                                    | <b>30</b> |       |     | <b>700</b> | <b>21</b> | <b>9</b> | <b>30</b> |

Qualification Pack-HSS/Q8601 -Basic Health Volunteer (Equivalent to ASHA)

| SEMESTER III       |               |                                                  |        |       |     |     |        |    |       |
|--------------------|---------------|--------------------------------------------------|--------|-------|-----|-----|--------|----|-------|
| C.No               | Course Code   | Course Name                                      | Credit | Marks |     |     | Hrs/wk |    |       |
|                    |               |                                                  |        | Int   | Ext | Tot | T      | P  | Total |
| 3.1                | GEC3EG07      | A03 Writing for academic & professional success  | 4      | 20    | 80  | 100 | 4      |    | 4     |
| 3.2                | GEC3OD08      | Ocular Disease                                   | 4      | 20    | 80  | 100 | 4      |    | 4     |
| 3.3                | GEC3CR09      | Clinical Refraction                              | 4      | 20    | 80  | 100 | 4      |    | 4     |
| 3.4                | SDC3PI09      | Pathology & Immunology (General & Ocular)        | 4      | 20    | 80  | 100 | 4      |    | 4     |
| 3.5                | SDC3OI10      | Ophthalmic Instrumentation & Procedure           | 4      | 20    | 80  | 100 | 4      |    | 4     |
| 3.6                | SDC3PI11 (P)  | Pathology & Immunology –Practical                | 4      | 20    | 80  | 100 |        | 4  | 4     |
| 3.7                | SDC3OI12 (P)  | Ophthalmic Instrumentation-Practical             | 6      | 20    | 80  | 100 |        | 6  | 6     |
| Semester III Total |               |                                                  | 30     |       |     | 700 | 20     | 10 | 30    |
| SEMESTER IV        |               |                                                  |        |       |     |     |        |    |       |
| C.No               | Course Code   | Course Name                                      | Credit | Marks |     |     | Hrs/wk |    |       |
|                    |               |                                                  |        | Int   | Ext | Tot | T      | P  | Total |
| 4.1                | GEC4EG10      | AO4 Zeitgeist : Readings on society and cultures | 4      | 20    | 80  | 100 | 4      |    | 4     |
| 4.2                | GEC4ES11      | (EWM1B01) Environmental Science                  | 4      | 20    | 80  | 100 | 4      |    | 4     |
| 4.3                | GEC4CO12      | Community Optometry                              | 4      | 20    | 80  | 100 | 4      |    | 4     |
| 4.4                | SDC4VO13      | Visual Optics                                    | 4      | 20    | 80  | 100 | 4      |    | 4     |
| 4.5                | SDC4DO14      | Dispensing Optics                                | 5      | 20    | 80  | 100 | 5      |    | 5     |
| 4.6                | SDC4DO15(P)   | Dispensing Optics-Practical                      | 5      | 20    | 80  | 100 |        | 5  | 5     |
| 4.7                | SDC4INT16(Pr) | Internship/ Project                              | 4      | 0     | 100 | 100 |        | 4  | 4     |
| Semester IV Total  |               |                                                  | 30     |       |     | 700 | 21     | 9  | 30    |

Qualification Pack-HSS/Q3001- Vision Technician.

| SEMESTER V         |                |                                                       |        |       |     |      |        |     |       |
|--------------------|----------------|-------------------------------------------------------|--------|-------|-----|------|--------|-----|-------|
| C.No               | Course Code    | Course Name                                           | Credit | Marks |     |      | Hrs/wk |     |       |
|                    |                |                                                       |        | Int   | Ext | Tot  | T      | P   | Total |
| 5.1                | GEC5NU13       | Nutrition                                             | 4      | 20    | 80  | 100  | 4      |     | 4     |
| 5.2                | SDC5GP17       | Geriatric & Pediatric Optometry                       | 4      | 20    | 80  | 100  | 4      |     | 4     |
| 5.3                | SDC5CL18       | Contact Lens                                          | 4      | 20    | 80  | 100  | 4      |     | 4     |
| 5.4                | SDC5BV19       | Binocular Vision                                      | 4      | 20    | 80  | 100  | 4      |     | 4     |
| 5.5                | SDC5LV20       | Low Vision Aid & Visual Rehabilitation                | 4      | 20    | 80  | 100  | 4      |     | 4     |
| 5.6                | SDC5CLBV21 (P) | Contact Lens & Binocular Vision-Practical             | 6      | 20    | 80  | 100  |        | 6   | 6     |
| 5.7                | SDC5LVGP22 (P) | Low Vision & Geriatric Pediatric Optometry –Practical | 4      | 20    | 80  | 100  |        | 4   | 4     |
| Semester III Total |                |                                                       | 30     |       |     | 700  | 20     | 10  | 30    |
| SEMESTER VI        |                |                                                       |        |       |     |      |        |     |       |
| C.No               | Course Code    | Course Name                                           | Credit | Marks |     |      | Hrs/wk |     |       |
|                    |                |                                                       |        | Int   | Ext | Tot  | T      | P   | Tot   |
| 6.1                | SDC6INT23 (Pr) | Major Internship (900 hrs.)                           | 30     | 0     | 100 | 100  |        | 900 | 900   |
| Semester VI Total  |                |                                                       | 30     |       |     | 100  |        |     | 900   |
| Grant Total        |                |                                                       | 180    |       |     | 3600 |        |     |       |

Qualification Pack-HSS/Q0401- Optometrist