The Open University of Sri Lanka
Faculty of Engineering Technology

A Guide for Re-registering Students
Academic Year 2021/22

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"The mission of the Faculty of Engineering Technology is to provide lifelong learning opportunities in Engineering and Technology for all to meet industrial and social needs through open and distance learning, and support research & scholarship by efficient & sustainable use of resources."

Preface

The Faculty of Engineering Technology has revised the curricula of all its Study Programmes to comply with the Sri Lanka Qualification Framework (SLQF) by incorporating extensive updates to the course syllabi. The Revised Curricula (RC) was implemented in the academic year 2019/20 by introducing level 3 and 4 courses. The level 5 and above courses were introduced in the academic year 2020/21.

This Guide provides information for all the students registered up to the academic year 2019/20. This Guide contains the courses that are offered in the academic year 2021/22.

Those students who intend to **fulfil the award requirements (Higher Diploma/Degree) under the Interim Curricula (IC)** of different Study Programmes should complete their award requirements at the end of the academic year 2021/22. The course lists in this Guide are based on these IC requirements (compulsory/elective). The original (IC) courses along with their relevant alternative **Revised Curricula (RC)** course(s) are shown in the tables with the prerequisites.

In the case of a few IC courses where alternative RC courses are not available, were offered for registration in the academic year 2020/21. Only the final exams in those courses for re-sit students will be held in this academic year.

Compulsory and elective courses in respect of different specialisations of study programmes under the **Revised Curricula (RC)** are not presented in this Guide. Therefore, those students aspiring to receive **awards under the Revised Curricula** must refer to the **Student Guidebook 2021/2022,** which is available on the Faculty website.

Time schedule for student registration

The exact date of the Re-registration, late registration, Add/Drop and Drop course only and other important will be informed the via faculty web page.

Applying for Final Examination

In order to sit for the Final Examination of courses, students should register online for the Final Examination. Any student, who wishes to change the Examination Centre other than the registered Centre, should inform to the Examination Division in advance.

Applying for Awards

In order to receive an award (Certificate/Diploma/Higher Diploma/Degree) the student should request through his/her MyOUSL account.

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Common Information Related to Revisions of Curricula

This chapter presents common information related to completing award requirements under Interim Curriculum and transferring to Revised Curriculum

Faculty of Engineering Technology has revised the curricula of all Programmes of Study in order to comply with the Sri Lanka Qualification Framework (SLQF).

Following are the Study Programmes that have been revised:

- Bachelor of Technology Honours in Engineering with intermediate qualification of Higher Diploma
- Bachelor of Industrial Studies Honours with intermediate qualification of Higher Diploma
- Bachelor of Software Engineering Honours with intermediate qualification of Higher Diploma
- Advanced Certificate in Apparel Technology

The curricula that comply with the SLQF are designated as **Revised Curricula (RC)** and the curricula that were offered from the academic year 2017/18 are called **Interim Curricula (IC).** Also note that the curricula offered before the academic year 2017/18 are identified as **Old Curricula (OC).**

Faculty has implemented the Revised Curricula by introducing levels 3 and 4 courses in the academic year 2019/20, and levels 5, 6 and 7 courses in the academic year 2020/21. The awards under the Revised Curricula will come into effect after the academic year 2021/22.

Refer the time plan of implementing Revised Curricula given in Table 1.

1.1 Completing the award requirements under Interim Curricula

The students who plan to complete award requirements of undergraduate Study Programmes under the Interim curricula should do so during the academic year 2021/22.

In deciding to complete the award requirements under the IC, the students should consider their position in the Study Programme and the practicability of completing all course requirements, within the academic year 2021/22.

The students, who consider completing the award requirements under IC, need to make note of the following.

1. The students can receive the awards under IC only in the academic year 2021/22.
2. Since no Courses of IC are offered in academic year 2021/22, any student who is required to do such courses could register and complete the equivalent courses of the RC. Such completed courses are converted back to the corresponding IC courses.
3. In situations where no equivalent course/s exist/s of the IC, such courses of the IC are not offered in the academic year 2021/22. Those courses were offered in the academic year 2020/21 for the last time.
4. The students can re-sit the Final Examinations of the courses of OC and IC until the validity of OCAM expires.
5. The students, who are unable to complete the award requirements at the end of the academic year 2021/22, will be required to transfer to the RC in the academic year 2022/23.

1.2 Transferring to the Revised Curricula

The students who cannot complete the award requirement under IC in the academic year 2021/22 should transfer to the RC.

The Faculty advice was that the students who have completed less than 100 credits in BTechHons(Eng) Study Programme and 90 credits in BISHons Study Programme at the end of the academic year (2019/20) should transfer to the RC. Students are advised to consult the relevant Department of Study in case of further doubts.

The students, who transfer to the RC, need to make note of the following.

1. The students can receive awards under the RC only from the academic year 2022/2023 onwards.
2. The respective courses completed under the IC are considered as alternative course/s to the courses (at levels 3 and 4) of the RC up to the academic year 2024/2025.

However, (MHZ3531 and MHZ3332), DMK3270 and DMX3511 are converted to relevant courses of the RC.

3. Levels 5 and 6 courses of IC completed by the students are converted to the equivalent course/s of the RC after the academic year 2021/2022.
4. The students may enrol for the relevant Industrial Training Modules (non-credit) of the IC until the academic year 2021/2022, and will have to be converted to Industrial Training courses of the RC thereafter

Followings are applicable for the students of Bachelor of Technology Honours in Engineering Study Programme.

All the students transferring to the RC are required to enrol for the following courses of RC to fulfil the compulsory courses and category credits requirements.

- EEX3417 Software Development for Engineers (if not exempted for an equivalent course in Interim Curriculum, EEX3517 or DMK3270 etc.)
- AGM4307 Economics and Marketing for Engineers (if not exempted for DMM5836 Management for Engineers)
- Level 4 Group Project where necessary

Followings are applicable for the students of Bachelor of Industrial Studies Honours Study Programme.

- All the students transferring to the RC are also required to enrol for the TAK3237 Introduction to Computer Applications.

The students who aspire to obtain any awards under Revised Curricula are requested to refer the **Student Guidebook 2021/2022**, which is available in the Faculty website. In some cases, the students may not fully fulfil the compulsory courses of the RC, despite the courses of the IC are converted or being considered as alternative courses to those of RC. Therefore, it is very important that the students aspiring to receive awards under RC, be familiar with the curriculum of RC including the compulsory courses for the specialisation and the category wise and level wise minimum credits requirements.

Student cannot claim credits for both Interim Curriculum Course/s and the equivalent Courses of the Revised Curriculum that are considered to be mutually exclusive courses. A list of IC Course/s mapped with RC Course/s in respect of all Study Programmes is given in the Annex.

Table 1: Time plan of implementing Revised Curricula for Re-registering Students

Revised Curriculum(RC)	Introduce Levels 3 and 4 courses	Introduce Levels 5, 6, 7 courses		Introduce Industrial Training courses
Academic Year	**2019/20**	**2020/21**	**2021/22**	**2022/23**
Interim Curriculum (IC)	(A) Offer L3 and L4 courses that are not mapped to the **L3 or L 4** courses of RC			
	Offer all L5 and L6 courses	(B) Offer L5 and L6 courses that are not mapped to the courses in the RC		
	Offer Industrial Training Modules			
	Discontinue L3 and L4 courses that have equivalent courses in RC	Discontinue L5 and L6 courses that have equivalent courses in RC	Discontinue all Courses of IC	Discontinue all Industrial Training Modules
Final Examinations	All L3 and L4 courses	L3 and L4 courses in (A)	L3 and L4 courses in (A)	
	All L 5 and L 6 courses	All L5 and L6 all courses	L5 and L6 courses in (B)	
Students expected to graduate under IC	(a) Fulfil course requirements for the award of Degree under IC latest by academic year 2021/22			**Failing to achieve (a), transfer to RC**

Study Programme Common Information

2.1 Structure of Curricula

The curricula of all Study Programmes of the Faculty of Engineering Technology ensure that the student receives an academically as well as professionally recognised qualification in a particular field. However, it still allows the student to structure the subject combinations and total duration of study to suit individual needs. To gain a qualification with a particular specialisation, a specific course combination stipulated for that specialisation needs to be fulfilled.

Courses

The fundamental entity in the dissemination process of knowledge is known as a "course" In other words, a course is equivalent to a subject.

Course Categories

Each course is classified into one of the Course Categories denoted by specific letters as given below.

Engineering	X
Engineering projects	Y
Mathematics	Z
Industrial	I
General	J
Computer literacy	K
English	L or E
Management	M

Course Levels

Each course is also assigned a "SLQF Level", between one (1) and seven (7). The Level indicates the relative complexity of the course content. SLQF Levels 1 and 2 comprise the certificate and Advanced Certificate Programmes. SLQF Levels 3 -7 are different stages in undergraduate Study Programmes leading to Diploma, Higher Diploma, Degree and Honours Degree qualifications. The courses of postgraduate Study Programmes are placed at Levels 7 and above.

Credit Rating of a Course

The Credit Rating assigned for a course reflects the amount of time an average student is expected to devote for its study.

Total effective time expected to be spent by an average student for a course with a Credit Rating of one (1) is about 50 notional hours. The credit rating of a course is denoted by the second digit (fifth character) in the Course Code.

Example: The course MHZ3551 has a credit rating of 5, which means the student is expected to spend about 250 notional hours of learning during the academic year.

Course Codes

Each course is assigned with a code consisting of letters and numbers. The course code denotes the Department that offer the course, Course Category, SLQF Level, Credit Rating and the serial number of the course assigned by the Department.

The codes allocated for the Departments of the Faculty are as follows:

Department/Faculty	Code
Agricultural and Plantation Engineering	AG
Civil Engineering	CV
Electrical and Computer Engineering	EE
Mathematics and Philosophy of Engineering	MH
Mechanical Engineering	DM
Textile and Apparel Technology	TA
Faculty of Engineering Technology	FD

Following are the codes for the Departments of the Faculty of Humanities and Social Sciences which offers certain courses for the Study Programmes of the Faculty of Engineering Technology.

Department	Code
Language Studies	LT
Legal Studies	LL

Example: Course code MHZ3551

MH - Mathematics and Philosophy of Engineering

Z – Mathematics Course Category

3 – SLQF level

5 – Credit Rating

51 – Serial Number assigned by the Department

The fifth character indicates the credit rating. Credits values from 10 onwards are indicated by letters; A, B, C, ...Z.

2.2 Study Programmes

A Study Programme is made up of a combination of different courses. For the award of a qualification such as Advanced Certificate, Higher Diploma or Honours Degree, three major considerations need to be fulfilled by the student:

1. A total stipulated number of Course Credits required for an award while fulfilling the minimum requirements at different Levels.

2. Minimum stipulated number of Credits under each Course Category at identified Levels.
3. The list of Compulsory Courses and relevant industrial training required for an award in that field of study.

2.3 Assessment

The Overall Assessment Mark (Z %) of a student in respect of any course is based on the Overall Continuous Assessment Mark (X %) and the mark obtained at the Final Examination (Y %) and is computed as follows. In order to sit for the Final Examination, X should be greater than or equal to 40%.

$$Z = 0.5X + 0.5Y, if\ Y \geq 40$$
$$Z = Y, if\ Y < 40$$

Each student who completes the Overall Continuous Assessment Mark requirement can sit for the Final Examination of a course, and will be awarded a grade and a Grade Point Value, as given in the Table below based on the Overall Assessment Mark (Z%).

Grade	Grade Point Value
A+	4.00
A	4.00
A-	3.70
B+	3.30
B	3.00
B-	2.70
C+	2.30
C	2.00
C-	1.70
D+	1.30
D	1.00
E	0.00

Performance Ranking

The performance of student (normally for degree awards) is ranked based on Grade Point Average (GPA). The method of computing GPA is given under the description of each Study Programme in Section 3.

The students who achieve a Cumulative GPA above a certain value and satisfy other conditions as determined by the Faculty are included in the Dean's List in every academic year.

2.4 Fees for Study Programmes

The fees payable by a student includes, registration fee, facilities fee, exemption fee (where applicable), library facility fee, tuition fee, etc.

The fees applicable for the academic year 2021/22 are as follows:

Type of Fee	Certificate, Diploma and Degree Programmes	Postgraduate Programmes
Registration	Rs. 350	Rs. 1000
Facilities	Rs. 1500	Rs. 1500
Library Facility	Rs. 100	Rs. 200
Exemption	Rs. 60 per credit	
Tuition fee	Depends on the Course Level	

Tuition fee applicable for ACAT, BTechHons(Eng) and BISHons courses in the academic year 2021/22 are given in the table below. These are liable to be revised for subsequent academic years.

Course SLQF Level	Tuition fee Rs per credit	Course Material fee per credit (Rs)
2	1000	150
3 and 4	1340	150
5,6 and 7	2100	230

Fees applicable for Industrial Training Modules are: Rs. 3300 for a Levels 3 and 4 module and Rs. 5500 for Levels 5 and 6 modules.

Tuition fee applicable for the Bachelor of Software Engineering Honours Degree Programme is Rs. 3,000 per credit.

The students registering for the CVX5440 (Surveying II) course conducted by the Department of Civil Engineering are required to pay additional Rs. 10,500 for the Surveying Camp.

The students registering for the courses TAI3270 Fashion Illustration I and TAI4373 Fashion Illustration II conducted by the Department of Textile and Apparel Technology are required to pay an additional sum of Rs. 1,725 per course.

An initial payment, as specified on the initial voucher should be paid by the applicant at the time of registration, and the balance is to be settled at the payment of second instalment about halfway into the academic year.

Study Programme Details

This Section describes in detail the following Programmes of Study conducted by the Faculty of Engineering Technology.

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Bachelor of Software Engineering Honours Study Programme 66

Advanced Certificate in Apparel Technology Study Programme 77

Extract from the "SRI LANKA QUALIFICATION FRAMEWORK (SLQF)" published by the University Grants Commission, 2015

SLQF Level	Qualification Awarded
12	Doctor of Philosophy/Doctor of Letters/Doctor Science
11	Master of Philosophy
10	Master with course work and a research component
9	Masters by course work
8	Postgraduate Diploma
7	Postgraduate Certificate
6	Bachelors Honours
5	Bachelors
4	Higher Diploma
3	Diploma
2	Advanced Certificate (G.C.E. A/L or equivalent)
1	Certificate (G.C.E. O/L or equivalent)

Bachelor of Technology Honours in Engineering Degree Study Programme

3.1 Bachelor of Technology Honours in Engineering Degree Study Programme

The Bachelor of Technology Honours in Engineering degree is designed carefully according to the requirements of the Sri Lanka Qualification Framework (SLQF), specifying minimum and maximum limits for each category of courses, to ensure that the Programme is balanced, and that it meets the academic requirements of major Engineering Institutions, both in Sri Lanka and international (e.g. The Institution of Engineers, Sri Lanka).

The Faculty expects a student who is awarded the Bachelor of Technology Honours in Engineering degree to be able to:

- Exhibit creative and analytical ability and innovative thinking in engineering,
- Address social, environmental, and economic issues related to engineering and
- Access and utilise engineering knowledge to the benefit of the society.

It is also possible for a student to obtain a Higher Diploma in an approved Technology discipline after successful completion of a required combination of courses and credit requirements. The Higher Diploma is one of the main avenues to enter middle-level technical grades within the engineering disciplines.

The Faculty expects a student who has been awarded the Higher Diploma in Technology to be:

- Competent in the application of the well-known principles of engineering technology,
- Aware of social, environmental, and economic issues related to technology and
- Self-motivated and capable of furthering career advancement

Areas of Specialisation

Bachelor of Technology Honours in engineering degree is available in the following specialisations.

- Agricultural Engineering
- Civil Engineering
- Computer Engineering
- Electrical Engineering
- Electronic and Communication Engineering
- Mechanical Engineering
- Mechatronics Engineering
- Textile and Clothing Engineering

Duration

The minimum duration of the Honours Degree Programme starting from level 3 is 5 academic years and the maximum number of academic years a student can spend to complete the degree Programme is fifteen (15) years.

Medium of Instruction

The medium of instruction of the Study Programme is English.

Eligibility for Admission to the Programme of Study

A person seeking admission to the Programme leading to the award of the Degree of Bachelor of Technology Honours in Engineering shall be required to have:

• Obtained passes in the subjects, Combined Mathematics, Physics and Chemistry at the General Certificate of Education (Advanced Level) Examination, Sri Lanka, in one and the same sitting or

• Obtained the Advanced Certificate in Science with courses in the disciplines of Mathematics, Physics and Chemistry, offered by The Open University of Sri Lanka or

• Obtained a minimum three (3) credit (C) passes for Mathematics, Physics and Chemistry in Cambridge/Edexcel Advanced Level Examination within three years or

• Obtained an equivalent or higher qualification acceptable to the Senate.

Requirements for the Award of the Degree

In order for a student to qualify for the award of the Degree of Bachelor of Technology Honours in Engineering, a student has to meet the following requirements (within a maximum period of 15 academic years).

(1) Successful completion of all compulsory courses for the selected engineering specialisation, and

(2) Fulfil level-wise and category-wise course credit requirements as given in Table 1(a) (until the academic year 2021/22 for IC) or Table 1(b) (from the academic year 2022/23 for RC)

Requirements for the Award of the Higher Diploma

A student could obtain Higher Diploma in an approved technology discipline as an intermediate award. In order to qualify for the award of Higher Diploma, a student has to meet the following requirements.

(1) Successful completion of all compulsory courses at levels 3 and 4 for the selected engineering specialisation, including the Industrial Training modules and

(2) Fulfil level-wise and category-wise minimum course credits as given in Table 2(a) (until the academic year 2021/22 for IC) or Table 2(b) (from the academic year 2022/23 for RC)

Criteria of Computing Grade Point Average (GPA)

The GPA is computed by considering the courses at levels 4, 5, 6 and 7 totalling to 70 credits (for IC as per Regulation No: 1.1.3.1(e)) or 90 credits (for RC as per Regulation No: 21. ET. (1)[a]). In selecting the courses for computing the GPA, the following sequence will be followed.

(1) Compulsory courses at levels 5 and above

(2) Non-compulsory courses at levels 5, and above

(3) Compulsory courses at level 4

In a situation, where exact number of credits cannot be obtained, the courses are selected to the nearest value below that number, and the remainder credit is taken as a Part Credit of the next course.

The Grade Point Average (GPA) is computed using (a) for IC or (b) for RC.

(a)

$$GPA = \frac{\{\sum (CreditRatingoftheCourse) * (GPV)\} + (PartCreditoftheCourse) * (GPV)}{70}$$

(b)

$$GPA = \frac{\{\sum (CreditRatingoftheCourse) * (GPV)\} + (PartCreditoftheCourse) * (GPV)}{90}$$

Table 1(a) - Category-wise and level-wise minimum credits requirements for the Award of Bachelor of Technology Honours in Engineering Degree in the academic year 2021/22 (applicable for Interim Curriculum)

Category	Minimum Credits	Maximum Credits
Engineering (X)	95 subject to a minimum of 38 at levels 5 and 6, of which at least 15 at level 6.	106 subject to a minimum of 38 at levels 5 and 6, of which at least 15 at level 6.
Engineering projects (Y)	10 subject to a minimum of 10 at level 6.	21 subject to a minimum of 10 at level 6.
Mathematics (Z)	18 subject to a minimum of 5 at levels 5 and 6.	29 subject to a minimum of 5 at levels 5 and 6.
General (J)	8	15
Management (M)	8	15
Industrial (I)	0	5
English (L or E)	0	5
Computer Literacy (K)	0	5
Total	150 Subject to a minimum of 70 at levels 5 and 6, of which at least 30 is at level 6.	

Table 1(b) - Category-wise and level-wise minimum credits requirements for the Award of Bachelor of Technology Honours in Engineering Degree from the academic year 2022/23 (Applicable for Revised Curriculum)

Category	Minimum Credits	Maximum Credits
Engineering (X)	90 Subject to a minimum of 40 at Level 5 or above, of which at least 5 at Level 7	95 Subject to a minimum of 40 at Level 5 or above, of which at least 5 at Level 7
Engineering projects (Y)	9 of which at least 8 at Level 7	14 of which at least 8 at Level 7
Mathematics (Z)	20 subject to a minimum of 5 at Level 5 or above	25 subject to a minimum of 5 at Level 5 or above
General (J)	5	10
Management (M)	15 Subject to a minimum 10 at Level 5 or above	20 Subject to a minimum 10 at Level 5 or above
Industrial Training (W)	8	8
Total	152 Subject to a minimum of 75 at Level 5 or above, of which at least 20 at Level 7	

Table 2(a)-Category-wise and level-wise minimum credits requirements for the Award of the Higher Diploma in an approved discipline in the academic year 2021/22 (Applicable for Interim Curriculum)

Category	Minimum Credits	Maximum Credits
Engineering (X)	50 of which at least 15 at level 4 or above	67 of which at least 18 at level 4 or above
Engineering projects (Y)	0	5
Mathematics (Z)	8	15
General (J)	0	5
Management (M)	0	5
Industrial (I)	0	5
English (L or E)	0	5
Computer Literacy (K)	0	5
Total	75 of which at least 30 at level 4 or above	

Table 2(b)-Category-wise and level-wise minimum credits requirements for the Award of the Higher Diploma in an approved discipline from the academic year 2022/23 (Applicable for Revised Curriculum)

Category	Minimum Credits	Maximum Credits
Engineering (X)	45 Subject to a minimum of 20 at Level 4 or above	50 Subject to a minimum of 20 at Level 4 or above
Engineering projects (Y)	1 at Level 4	4 at Level 4
Mathematics (Z)	10	15
General (J)	0	5
Management (M)	5 at Level 3 or 4	7 at Level 3 or 4
Industrial Training (W)	8	8
Total	74 Subject to a minimum of 30 at Level 4	

Limits for Exemptions

Notwithstanding any exemptions granted for prior qualifications, a student shall acquire, by successful completion in accordance with the Scheme of Assessment, a minimum number of credits as shown in the Table 3 below for the awards.

Table 3 – Minimum number of credits to be obtained by following courses despite exemptions

Credit Description	Interim Curriculum	Revised Curriculum
For Degree		
Level 7 (considering all Categories)	N/A	10
Level 7 (considering X and Y categories)	N/A	7
Levels 5 and above (considering all Categories)	35	38
Levels 5 and above (considering X, Y and Z Categories)	35	27
Total (considering all Categories and all levels from 3 and above)	75	76
For Higher Diploma		
Level 4 (considering all Categories)	15	15
Level 4 and above (considering X and Y Categories)	15	11
Total (considering all Categories and all levels from 3 and above)	38	37

A list of qualifications for which exemptions could be claimed is given in Page 40.

Curricula for Different Specialisations

Important Notes

(a) Maximum number of credits per academic year and General pre-requisites

Maximum number of credits a student can register at the Open University of Sri Lanka per academic year is 38.

Also note that in addition to the pre-requisites mentioned in the curricula the following pre-requisite (Level Pre-requisites) have to be fulfilled for registering courses.

For Courses at level 3: FDE3020 (CR), LTE3401 (CR) or VTL1501 or VTL2001
For Courses at level 4: {EDE3001(EL) or FDE3020 (CA)}, {LSE3204 (EL) or LTE3401 (CA) or VTL1501 or VTL2001}
For Courses at level 5 and above: FDE3020 (P), LTE3401 (P) or VTL1501 or VTL2001

(b) General (J) and Management (M) category courses

The courses listed under specializations do not include General (J) and Management (M) category courses, and these have to be selected from the Table given below to meet the minimum credit requirements in those course categories.

All the courses of IC have now been discontinued except training modules. Therefore, students need register fort he alternative course given in the second column (RC courses).

Course (IC)	Alternative Course (RC)	Prerequisite
LLJ3360 Introduction to laws of Sri Lanka	LLJ3245 Introduction to Laws of Sri Lanka	none
None	MHJ4241 History of Technology*	Pass in 20 credits
MHJ5531 The nature of science	MHJ5343 Nature of Science	Pass in 45 credits s
MHJ5533 Technology, society and environment	MHJ5342 Technology, Society and Environment	Pass in 45 credits
DMM5836 Management for engineers *(last offered in 2020/21)*	AGM4307 Economics and Marketing for Engineers	Pass in 45 credits and additional CA in 15 credits
	CVM5401 Accounting for Engineers	
	DMM6601 Management for Engineers	
TAM5861 Textile management and merchandising *(offered in 2020/21)*	None	None

* new course

(c) Non-compulsory (Elective) Courses

The students enrolled until the academic year 2017/18 had the provision to register for courses from the "Complete List of Courses" of the Faculty to fulfil the "slack" of a given specialisation. In the RC, recommended elective courses are provided from which the student has to choose courses for the "slack".

The students who have already completed courses (CA or P) outside the list of recommended courses can count the credits for such courses despite they receive the awards under IC or RC. Now the students are allowed to register only for the courses selected from the recommended elective courses. However, those courses that have been already completed may be considered towards the credit requirements.

(d) Industrial Training Modules

Students can register for Industrial Training Modules of the IC in the academic year 2021/22. These Modules are replaced with equivalent Industrial Training Courses from the academic year 2022/23.

(e) Fulfilment of Category Credits and Compulsory Courses under RC

The students who aspire to receive awards under the RC need to register for the following courses, except under the conditions mentioned in the **'Remarks'** column of the following Table, to fulfil category-wise credit requirements and compulsory course requirements for awards under RC.

Course (RC)	Prerequisites	Remarks
EEX3417 Software Development for Engineers	DMX3511(P) OR AGM3203(CR)	Exemption will be granted for an equivalent course in Interim Curriculum
CVY4185/EEY4181/EEY4182/EEY4183/ DMY4101/DMY4102/TAY4181 Group Project	As decided by the department of study	CVY4185 is compulsory only for the awards of Higher Diploma in Civil Technology
AGM4307 Economics and Marketing for Engineers	Pass in 18 credits in Level 3	if not completed DMM5836

The following pages give the courses for different specialisations for meeting the award requirements under IC with the incorporation of courses of the RC.

Curriculum for Civil Engineering Specialisation

All the courses of the IC have been discontinued. If a student needs a course to fulfil the award requirements under IC, such student is required to register for the alternative course/s of the RC given in the second column.

Level 3 Compulsory Courses

Course (IC)	Alternative Course (RC)	Prerequisite
MHZ3531 Engineering Mathematics IA MHZ3332 Engineering Mathematics IB *See the note below.*	MHZ3551 Engineering Mathematics I	None
	MHZ3552 Engineering Mathematics II	None
EEX3510 Electro Techniques	EEX3410 Introduction to Electrical Engineering	MHZ3531(CA) OR MHZ3552(CR)
DMX3511 Communicating Engineering Information	DMX3305 Introduction to Engineering Design Graphics	None
	AGM3203 Communication Skills	None
DMX3512 Basic Thermo Fluids	DMX3401 Fluid Mechanics and Thermodynamics	None
DMW3001 Workshop Practice	DMX3107 Workshop Practice	None
CVX3530 Construction Materials	Discontinued	None
CVX3531 Structural Analysis and Design I	CVX3441 Structural Analysis and Design I	[DMX3511(P) OR DMX3305(CR)], [CVX3534(P) OR CVX3442 (CR)]
CVX3534 Strength of Materials	CVX3442 Strength of Materials	{MHZ3531(P) OR MHZ3551(CR)}, {MHZ3332(P) OR MHZ3552(CA)}
CVX3532 Hydraulics & Hydrology	CVX3340 Introduction to Hydraulics & Hydrology	[DMX3512(P) OR DMX3401(CR)}, [MHZ3531 (P) OR MHZ3551(CR)]
CVX3533 Surveying I	CVX4342 Surveying I	(DMX3511(P) OR DMX3305(P)]. [MHZ3531(P) OR MHZ3551(P)], [MHZ3332(P) OR MHZ3552(P)]

Note: A student who has failed/repeated at least one of the courses from MHZ3531 *and* MHZ3332 *of IC, he/she* ***should*** *register for equivalent courses of the RC,* MHZ3551 *and* MHZ3552*, and obtain backward conversion to* MHZ3531 *and* MHZ3332*, after passing both the courses of RC. Note that no one –to- one conversion is given.*

Level 4 Compulsory Courses

Course (IC)	Alternative Course (RC)	Prerequisite
MHZ4530 Engineering Mathematics III*	MHZ4553 Engineering Mathematics III	[MHZ3531(CA), MHZ3332(CA)] OR [MHZ3551(CA), MHZ3552(CA)]
CVX4530 Soil Mechanics & Introduction to Rock Mechanics	CVX4343 Soil Mechanics	[CVX3534(P) OR CVX3442 (P)], [CVX3532(P) OR CVX3340(P)]
CVX4531 Structural Analysis and Design II	CVX4545 Structural Analysis and Design II	[CVX3531(P) OR CVX3441 (P)], [CVX3534(P) OR CVX3442 (P)]

Course (IC)	Alternative Course (RC)	Prerequisite
CVX4532 Construction Engineering & Planning	CVX4446 Construction Engineering & Materials	[CVX3534(P)OR CVX3442(P)], [MHZ3332(P) OR MHZ3552(P)], [MHZ3331(P) OR MHZ3551(P)]

*Not compulsory for Higher Diploma

Course (IC)	Alternative Course (RC)	Prerequisite
Select two from:		
CVX4534 Water Supply and Sewerage Engineering	CVX4348 Water and Wastewater Engineering	[CVX3340 (P) OR CVX3532 (P)]
CVX4535 Building Engineering	CVX4349 Building Engineering	{DMX3511 (P) OR DMX3305(P)], [EEX3410 (P) OR EEX3510 (P)], {CVX4446 (CR) OR CVX4532(CA)}
CVX4538 Quantity Surveying	CVX4350 Quantity Surveying	[CVX4342 (CR) OR CVX3533 (CA)], [CVX4446 (CR) OR CVX4532 (CA)]
CVX4533 Irrigation Engineering	*CVX4347 Irrigation Engineering	{CVX3340(P) OR CVX3532(P)}

*** Not offered in 2021/2022**

Courses (RC)	Prerequisites
**CVY4185 Group Project	MHZ3551(P), MHZ3552 (P), DMX3305 (P), CVX3340 (P), CVX3441 (P), CVX3442 (P), CVX4343 (CR), CVX4545 (CR), CVX4446 (CR)

**** Compulsory for the award of higher diploma**

Levels 5 and 6 Compulsory Courses

Course (IC)	Alternative Course (RC)	Prerequisite
MHZ5530 Engineering Mathematics III	MHZ5554 Engineering Mathematics IV	[MHZ3531(P), MHZ3332(P)] OR [MHZ3551(P), MHZ3552(P)], MHZ4530(CA) OR MHZ4553(CA)
CVX5530 Surveying II	CVX5440 Surveying II	[CVX3533(P) OR CVX4342(P)], [CVX3532(P) OR CVX4241(P)], [CVX5532(P) OR CVX4344(P)]. [MHZ4553(P) OR MHZ4530(P)], Pass in additional 30 credits in X category, subjected to a minimum of 16 credits at Level 4 or above
CVX5531 Mechanics of Fluids	CVX4240 Hydraulic Engineering i*	[CVX3340(P) OR CVX3532(P)], [DMX3401(P) OR DMX3512(P)], [MHZ3551(P) OR MHZ3531(P)]
	CVX4241 Engineering Hydrology*	[CVX3340(P) OR CVX3532(P)], [MHZ3551(P) OR MHZ3531(P)], [MHZ3552(P) OR MHZ3332(P)]
	CVX5241 Hydraulic Engineering ii*	[CVX4240(P) AND CVX4241(P)] OR CVX3532[P]
	CVX5242 Mechanics of Fluids*	[CVX4240(P) AND CVX4241(P)] OR CVX3532[P]
CVX5532 Engineering Geology	CVX4344 Engineering Geology	[CVX4530(P) OR CVX4343(CR)], [CVX3532(P) OR CVX4241(CR)]
CVX5533 Structural Analysis	CVX5443 Structural Analysis	[CVX4531(P) OR CVX4545(P)] (MHZ4530(P) OR MHZ4553(P)}

Course (IC)	Alternative Course (RC)	Prerequisite
Not Applicable	CVX6180 Project Identification and Literature Review	None
CVX6530 Geotechnics	CVX6444 Geotechnics**	[CVX4343(P) OR CVX4530(P)]
	CVX7241 Geotechnical Design**	CVX6444(P)
CVX6831 Construction Engineering & Management	CVX6546 Construction Engineering & Management	[CVX4531(P) OR CVX4545(P)], [CVX4532(P) OR CVX4446(P)]
CVX6832 Structural Design	CVX7640 Structural Design	[CVX5533(P) OR CVX5443(P)], [CVX4531(P) OR CVX4545(P)]
CVX6533 Environmental Engineering	CVX6345 Environmental Engineering	[CVX3532(P) OR CVX3340(P)], [CVX4532(P) OR CVX4446(CA)], [CVX5532(P) OR CVX4344(CA)]
	CVX7242 Environmental Engineering Design	CVX6345(CR)
None	CVY7880 Engineering Research Project (Civil)	Pass in 80 Credits including 50 credits Pass in X category coursers, [CVX4531(P) OR CVX4545(P)], CVX6180 (P)
None	CVY7385 Comprehensive Design Project (Civil)	Pass in 80 Credits including 50 credits Pass in X category coursers, [CVX4531(P) OR CVX4545(P)], CVX6180 (P)

Note

*** Students only who are able to graduate in academic year 2021/22 can register these four Coursers concurrently instead of CVX5531**

**** Students only who are able to graduate in academic year 2021/22 can register these two Courses concurrently instead of CVX6530**

Industrial Training modules

Module (IC)	Alternative Course (RC) to offer in 2022/23	Prerequisites
CVW4002 Industrial Training (Civil - Diploma)	CVW4802 Industrial Training (Civil diploma)	[MHZ3332(P) OR MHZ3552(P)], [EEX3510(P) OR EEX3410(P)], [DMX3512(P) OR DMX3401(P)], [CVX3531(P) OR CVX3441(P)], [CVX3532(P) OR CVX3340(P)], [CVX3533(P) OR CVX4342(P)], [CVX3534(P) OR CVX3442(P)], [DMW3001(P) OR DMX3107(P)], CA in 10 course credits at Level 4 or above
CVW5003 Industrial Training (Civil - Undergraduate)	CVW6803 Industrial Training (Civil-undergraduate)	[EEX3510(P) OR EEX3410(P)], [DMX3512(P) OR DMX3410 (P)], [CVX3534(P) OR CVX3442 (P)], [MHZ4530(P) OR MHZ4553(P)), [MHZ5530(P) OR MHZ5554 (CA)], [CVX5530(P) OR CVX5440(CA)], [CVX5531(P) OR [(CVX4240(P) AND CVX4241(P) AND CVX5241(P) AND CVX5242 (P))], [CVX5532(P) OR CVX4344(P)], [CVX5533(P) OR CVX5443(P)), CA in 10 credits at level 6

Elective Courses Level 7

Course (IC)	New/Alternative Course (RC)	Prerequisites
not applicable	CVX7345 Highway Engineering & Design	CVX4343 (P), CVX4446 (P), CVX5440(P)

Students who graduate under the IC, but registered for equivalent courses in RC will be granted credits pertaining to the equivalent IC courses by backward conversion of RC credits to IC credits.

Curriculum for Computer Engineering Specialisation

All the courses of the IC have been discontinued. If a student needs a course to fulfil the award requirements under IC, such student is required to register for the alternative course/s of the RC given in the second column.

Compulsory Courses

Course (IC)	Alternative Course (RC)	Prerequisite
Level 3		
MHZ3531 Engineering Mathematics IA MHZ3332 Engineering Mathematics IB *See the note below*	MHZ3551 Engineering Mathematics I	None
	MHZ3552 Engineering Mathematics II	None
EEX3510 Electro Techniques	EEX3410 Introduction to Electrical Engineering	MHZ3531(CA) OR MHZ3552(CR)
EEX3533 Communication and IT	EEX3336 Communications and Computer Technology	DMX3511(P) OR AGM3203(CR), EEX3510(P) OR EEX3410(CR), EEX4547(P) OR EEX3517(P) OR EEX3417(CR)
DMX3511 Communicating Engineering Information	DMX3305 Introduction to Engineering Design Graphics	None
	AGM3203 Communication Skills	None
EEX3350 Electronics I	EEX3351 Electronics I	EEX3510(P) OR EEX3410(CR)
EEX3531 Electrical Circuits and Measurements	EEX3331 Electrical Measurements and Instrumentation	EEX3510(P) OR EEX3410(CR)
	EEX4331 Circuit Theory and Design	EEX3510(P) OR EEX3410(CA), [MHZ3531(CA), MHZ3332(CA)] OR [MHZ3551(CA), MHZ3552(CA)]
EEX3532 Electrical Power	EEX4332 Electrical Power	EEX3510(P) OR EEX3410(CA), MHZ3531(CA) OR MHZ3551(CA)
DMX3512 Basic Thermo Fluids	DMX3401 Fluid Mechanics and Thermodynamics	None
Level 4		
MHZ4530 Engineering Mathematics II*	MHZ4553 Engineering Mathematics III	[MHZ3531(CA), MHZ3332(CA)] OR [MHZ3551(CA), MHZ3552(CA)]
MHZ4340 Discrete Mathematics I	MHZ4256 Mathematics for Computing	None
EEX4350 Electronics II	EEX4351 Electronics II	EEX3510(P) OR EEX3410(CA), EEX3350(P) OR EEX3351(CA), MHZ3531(CA) OR [MHZ3551(P), MHZ3552(CA)], DMX3511(P) OR AGM3203(CA)
EEX4535 Data Structures and Algorithms	EEX4435 Data Structures and Algorithms	EEX3533(P) OR EEX3517(P) OR EEX3417(CA) OR EEX4547(P), MHZ3531(CA) OR MHZ3551(CA), DMX3511(P) OR AGM3203(CA), 15 credits at level 3
EEX4536 Microprocessors and Interfacing	EEX4436 Microprocessors and Interfacing	MHZ3531(P) OR MHZ3551(P), DMX3511(P) OR AGM3203(CA), [EEX3533(P) OR (EEX3336(P), EEX3517(P) OR EEX3417(P)), [EEX3350(P) OR EEX3351(P), EEX4350(P) OR EEX4351(CR)] OR EEX3530(P) OR DMX3572(CA) OR DMX3574(P) OR DMX3304(CA)

Course (IC)	Alternative Course (RC)	Prerequisite
EEX4547 Software Engineering	EEX3417 Software Development for Engineers	DMX3511(P) OR AGM3203(CR)
	EEX4347 Software Engineering Concepts	EEX3533(P) OR [EEX3517(P) OR EEX3417(CA), EEX3336(CA)], DMX3511(P) OR AGM3203(CA), 15 credits at Level 3
Level 5		
MHZ5530 Engineering Mathematics III	MHZ5554 Engineering Mathematics IV	[MHZ3531(P), MHZ3332(P)] OR [MHZ3551(P), MHZ3552(P)], MHZ4530(P) OR MHZ4553(CA)
MHZ5340 Discrete Mathematics II	MHZ5355 Discrete Mathematics	MHZ4340(P) OR MHZ4256(P) OR MHZ3551(P)
EEX5534 Data Communications	EEX5434 Data Communications and Networking	EEX3533(P) OR EEX3336(P), EEX3510(P) OR EEX3410(P), [MHZ3531(P), MHZ3332(P)] OR [MHZ3551(P), MHZ3552(P)], DMX3511(P) OR AGM3203(CA)
EEX5535 Operating Systems	EEX5335 Operating Systems	MHZ5340(CA) OR MHZ5355(CR), EEX4535(P) OR EEX4435(CA), EEX4536(P) OR EEX4436(CA), EEX5536(CR), 36 credits at Level 3
EEX5536 Computer Architecture	EEX5536 Computer Architecture	EEX3533(P) OR EEX4547(P) OR [EEX3517(P) OR EEX3417(P), EEX3336(P)], EEX3530(P) OR EEX3350(P) OR EEX3351(P), [MHZ3531(P), MHZ3332(P)] OR MHZ4553(P), EEX4536(P) OR EEX4436(CA), 30 credits
Level 6		
EEX6351 Digital Electronic Systems	EEX5351 Digital Electronic Systems	EEX3510(P) OR EEX3410(P), EEX3533(P) OR EEX4547(P) OR [EEX3517(P) OR EEX3417(P), EEX3336(P)], EEX4350(P) OR EEX3530(P) OR EEX4351(P), MHZ3531(P) OR MHZ3551(P), DMX3511(P) OR AGM3203(CA), EEX4536(P) OR EEX4436(CA)
EEX6535 Compiler Design	EEX6335 Compiler Design	DMX3511(P) OR AGM3203(CA), EEX4535(P) OR EEX4435(P), EEX5536(CA), MHZ4340(P) OR MHZ4256(P) OR MHZ3551(P), MHZ5340(P) OR MHZ5355(P)
EEX6536 Processor Design	EEX7436 Processor Design	EEX6351(P) OR EEX6830(P) OR EEX5351(CA), EEX5536(CA), EEX3533(P) OR EEX4547(P) OR [EEX3517(P) OR EEX3417(P), EEX3336(P)], DMX3511(P) OR AGM3203(P), MHZ3550(P) OR MHZ3551(P), EEX4536(P) OR EEX4436(CA)
EEY6D95 Individual Project – Type B (Computer, Electrical, Electronic and Communication)	EEY7881 Engineering Research Project (Computer Engineering)	EEX6181(P), EEX6536(P) OR EEX7436(CR), EEX6236(CR), 80 credits including 50 credits in X category
EEY6A96 Group Project (Computer, Electrical, Electronic and Communication)		

Note: A student who has failed/repeated at least one of the courses from MHZ3531 *and* MHZ3332 *of IC, he/she* ***should*** *register for equivalent courses of the RC,* MHZ3551 *and* MHZ3552*, and obtain backward conversion to* MHZ3531 *and* MHZ3332*, after passing both the courses of RC. Note that no one –to- one conversion is given.*

*MHZ4530 Engineering Mathematics II not compulsory for Higher Diploma

Some Elective Courses

Course (IC)	New/Alternative Course (RC)	Prerequisites
not applicable	EEX3269 Mobile Application Development for Android	None
not applicable	EEX3372 Programming in Python	EEX4547(P) OR EEX3517(P) OR EEX3417(CR)

Course (IC)	New/Alternative Course (RC)	Prerequisites
not applicable	EEX4146 Digital System Simulation	EEX3533(P) OR EEX3336(P), EEX3530(P) OR EEX3350(P) OR EEX3351(P), EEX4547(P) OR EEX3517(P) OR EEX3417(P), MHZ3531(P) OR MHZ3551(P), DMX3511(P) OR AGM3203(P), EEX3530(P) OR EEX4350(P) OR EEX4351(CR)
EEX4562 Object Oriented Design and Programming	EEX3262 Introduction to Object Oriented Design and Programming	EEX3533(P) OR EEX3517(P) OR EEX3417(CR)
	EEX4362 Object Oriented Design and Programming	EEX3262(CA), EEX3533(P) OR EEX3517(P) OR EEX3417(P), MHZ4340(P) OR MHZ4256(CA) OR MHZ3551(CA)
EEX4534 Electrical Installations	EEX4434 Electrical Installations	EEX3510(P) OR EEX3410(P), DMX3511(P) OR DMX3305(P), EEX3532(P) OR EEX4532(P) OR EEX4332(CR) OR EEX4552(P) OR EEX4542(CR)
not applicable	EEX5280 Creative Design	45 credits
EEX5545 Database Management Systems	EEX3266 Information Systems and Data Management	None
	EEX4366 Data Modelling and Database Systems	EEX3266(CA)
EEX5567 Software Testing and Quality Assurance	EEX5467 Software Testing and Quality Assurance	EEX4547(P) OR EEX4537(P) OR EEX4347(P), 20 credits at Level 3
not applicable	EEX5360 Signals and Systems	EEX3533(P) OR EEX3336(P), MHZ4530(P) OR MHZ4553(CR), [MHZ3531(P), MHZ3332(P)] OR [MHZ3551(P), MHZ3552(P)]
not applicable	EEX5270 Information Security	MHZ3531(P) OR MHZ3551(P), EEX4547(P) OR EEX3517(P) OR EEX3417(P), EEX4535(P) OR EEX4435(P), 30 credits at Level 3
not applicable	EEX5346 Embedded Systems	EEX4547(P) OR EEX3517(P) OR EEX3417(P), EEX3533(P) OR EEX3336(P), [EEX3350(P) OR EEX3351(P), EEX4350(P) OR EEX4351(CA)] OR EEX3530(P), EEX4536(P) OR EEX4436(CA), EEX5535(CA) OR EEX5335(CR) OR EEX5564(CR) OR EEX5536(CR), MHJ5533(P) OR MHJ5342(CR)
not applicable	EEX5466 Advanced Database Systems	[EEX3266(P), EEX4366(CA)] OR EEX5545(P)
not applicable	EEM6201 Professional Practice	36 credits at Level 3, 24 credits at Level 4 or above
not applicable	EEX6236 Advanced Computer Architecture	MHZ4530(P) OR MHZ4553(P), EEX4536(P) OR EEX4436(CA), EEX5535(P) OR EEX5335(CA), EEX5536(CA), 60 credits
EEX6534 Digital Signal Processing	EEX7434 Digital Signal Processing	EEX5360(P), 45 credits
EEX6540 Knowledge Engineering	EEX7340 AI Techniques and Agent Technology	EEX4535(P) OR EEX4435(P), [MHZ4340(P) MHZ5340(P)] OR MHZ5355(P), EEX4547(P) OR EEX4537(P) OR EEX4347(P)
	EEX7241 Neural Networks and Fuzzy Logic Applications	EEX3533(P) OR EEX3517(P) OR EEX3417(P), 65 credits
EEX6550 Analog Electronic Systems	EEX6450 Analog Electronic Systems and Instrumentation	EEX3531(P) OR EEX4331(P), EEX4350(P) OR EEX3530(P) OR EEX4351(P), DMX4543(P) OR DMX5403(P), 50 credits at Levels 3 & 4
DMX6570 Factory Automation	DMX7304 Factory Automation	Pass in 60 Credits in X category
EEX6536 Processor Design	EEX7436 Processor Design	EEX6351(P) OR EEX6830(P) OR EEX5351(CA), EEX5536(CA), EEX3533(P) OR EEX4547(P) OR [EEX3517(P) OR EEX3417(P), EEX3336(P)], DMX3511(P) OR

Course (IC)	New/Alternative Course (RC)	Prerequisites
		AGM3203(P), MHZ3550(P) OR MHZ3551(P), EEX4536(P) OR EEX4436(CA)
not applicable	EEY4181 Group Project – Computer Engineering	30 credits

Training modules

Module (IC)	Alternative Course	Prerequisites
DMW3001 Workshop Practice	DMX3107 Workshop Practice	None
Select only one:		
EEW3001 Industrial Training I (Electronics)	*is offered for students completing under IC*	DMW3001(P) OR DMX3107(P), EEX3510(P) OR EEX3410(P), [EEX3350(P) OR EEX3351(P), EEX4350(P) OR EEX4351(CR) OR EEX3530(P)
for RC students	EEW4301 Industrial Training I (Electronics)	EEX4350(P) OR EEX3530(P) OR EEX4351(CR), 36 credits at Level 3
Select only one:		
EEW4001 Industrial Training II (Software)	*is offered for students completing under IC*	EEW3001(CR) OR EEW3590(P), EEX4547(P) OR [EEX4347(CR), EEX3517(P) OR EEX3417(CR)] OR EEX4535(P) OR EEX4435(CR)
EEW5001 Industrial Training II (Software -Undergraduate)	*is offered for students completing under IC*	EEW3001(CR) OR EEW3590(P), EEX4547(P)OR EEX4537(P) OR EEX4347(P), EEX4562(P) OR EEX4362(CA) OR EEI4362(P), EEX4535(P) OR EEX4435(P)
for RC students	EEW5501 Industrial Training II (Computer)	EEW3001(P) OR EEW3590(P) OR EEW4301(CR), EEX4547(P) OR EEX4537(P) OR EEX4347(P), 65 credits

Curriculum for Electrical Engineering Specialisation

All the courses of the IC have been discontinued. If a student needs a course to fulfil the award requirements under IC, such student is required to register for the alternative course/s of the RC given in the second column.

Compulsory Courses

Course (IC)	Alternative Course (RC)	Prerequisites
Level 3		
MHZ3531 Engineering Mathematics IA MHZ3332 Engineering Mathematics IB *See the note below*	MHZ3551 Engineering Mathematics I	None
	MHZ3552 Engineering Mathematics II	None
DMX3511 Communicating Engineering Information	DMX3305 Engineering Design Graphics	None
	AGM3203 Communication Skills	None
DMX3535 Thermo Fluids	DMX3401 Fluid Mechanics and Thermodynamics	None
EEX3350 Electronics I	EEX3351 Electronics I	EEX3510(P) OR EEX3410(CR)
EEX3510 Electro Techniques	EEX3410 Introduction to Electrical Engineering	MHZ3531(CA) OR MHZ3552(CR)

Course (IC)	Alternative Course (RC)	Prerequisites
EEX3531 Electrical Circuits & Measurements	EEX3331 Electrical Measurements and Instrumentation	EEX3510(P) OR EEX3410(CR)
	EEX4331 Circuit Theory and Design	EEX3510(P) OR EEX3410(CA), [MHZ3531(CA), MHZ3332(CA)] OR [MHZ3551(CA), MHZ3552(CA)]
EEX3533 Communication and IT	EEX3336 Communications and Computer Technology	DMX3511(P) OR AGM3203(CR), EEX3510(P) OR EEX3410(CR), EEX4547(P) OR EEX3517(P) OR EEX3417(CR)
Level 4		
MHZ4530 Engineering Mathematics II*	MHZ4553 Engineering Mathematics III	[MHZ3531(CA), MHZ3332(CA)] OR [MHZ3551(CA), MHZ3552(CA)]
EEX4350 Electronics II	EEX4351 Electronics II	EEX3510(P) OR EEX3410(CA), EEX3350(P) OR EEX3351(CA), MHZ3531(CA) OR [MHZ3551(P), MHZ3552(CA)], DMX3511(P) OR AGM3203(CA)
EEX4534 Electrical Installations	EEX4434 Electrical Installations	EEX3510(P) OR EEX3410(P), DMX3511(P) OR DMX3305(P), EEX3532(P) OR EEX4532(P) OR EEX4332(CR) OR EEX4552(P) OR EEX4542(CR)
EEX4536 Microprocessors and Interfacing	EEX4436 Microprocessors and Interfacing	MHZ3531(P) OR MHZ3551(P), DMX3511(P) OR AGM3203(CA), [EEX3533(P) OR (EEX3336(P), EEX3517(P) OR EEX3417(P)), [EEX3350(P) OR EEX3351(P), EEX4350(P) OR EEX4351(CR)] OR EEX3530(P) OR DMX3572(CA) OR DMX3574(P) OR DMX3304(CA)
EEX4548 Electrical Machines	EEX4448 Electrical Machines	EEX3510(P) OR EEX3410(P), [MHZ3531(P), MHZ3332(CA)] OR [MHZ3551(P), MHZ3552(CA)], EEX4552(P) OR EEX4542(CR)
EEX4552 Power Systems I	EEX4542 Power Systems I	EEX3510(P) OR EEX3410(P), [MHZ3531(P), MHZ3332(CA)] OR [MHZ3551(P), MHZ3552(CA)], DMX3511(P) OR DMX3305(P)
DMX4543 Control Systems Engineering*	DMX5403 Control Systems Engineering	MHZ4530(P) OR MHZ4553(CR), 30 credits in X category
Level 5		
MHZ5530 Engineering Mathematics III	MHZ5554 Engineering Mathematics IV	[MHZ3531(P), MHZ3332(P)] OR [MHZ3551(P), MHZ3552(P)], MHZ4530(CA) OR MHZ4553(CA)
EEX5531 Network Theory	EEX7231 Advanced Circuit Design and Analysis	EEX3530(P) OR EEX3531(P) OR EEX4331(P), MHZ4530(P) OR MHZ4553(CA), 60 credits from Levels 3 & 4
EEX5538 High Voltage Engineering and Electrical Machines	EEX5338 High Voltage Engineering	EEX4548(P) OR EEX4448(CA) OR [EEX4538(P), EEX3532(P)], EEX4552(P) OR EEX4532(P) OR EEX4542(CA), 36 credits at Level 3
EEX5832 Power Systems II	EEX5352 Power Systems II	MHZ4530(P) OR MHZ4553(CA), EEX4552(P) OR EEX4532(P) OR EEX4542(CA), EEX4548(P) OR [EEX4538(P), EEX3532(P)] OR EEX4448(CA), 36 credits at Level 3
Level 6		
EEX6541 Field Theory	EEX6441 Electromagnetism and Wave Propagation	MHZ4530(P) OR MHZ4553(P), MHZ5530(P) OR MHZ5554(CR), 50 credits at Levels 3 & 4
EEX6832 Power Systems Planning	EEX7432 Power Systems Planning, Operations and Control	EEX4552(P) OR [EEX4532(P), EEX3532(P)] OR EEX4542(P),

Course (IC)	Alternative Course (RC)	Prerequisites
		DMX4543(P) OR DMX5403(CA), EEX5832(P) OR EEX5352(CA), 60 credits at Levels 3 & 4
EEY6D95 Individual Project – Type B (Computer, Electrical, Electronic and Communication)	EEY7882 Engineering Research Project [Electrical Engineering]	EEX6182(CA), EEX6832(P) OR EEX7432(CR), EEW4002(CA) OR EEW5002(CA) OR EEW4502(CR) OR EEW6502(CR), 90 credits including 60 credits in X category
EEY6A96 Group Project (Computer, Electrical, Electronic and Communication)		

Note: A student who has failed/repeated at least one of the courses from MHZ3531 *and* MHZ3332 *of IC, he/she* ***should*** *register for equivalent courses of the RC,* MHZ3551 *and* MHZ3552*, and obtain backward conversion to* MHZ3531 *and* MHZ3332*, after passing both the courses of RC. Note that no one –to- one conversion is given.*

**MHZ4530 Engineering Mathematics II and DMX4543 Control Systems Engineering are not compulsory for Higher Diploma

Some Elective Courses

Course (IC)	New/Alternative Course (RC)	Prerequisites
not applicable	EEX3262 Introduction to Object Oriented Design and Programming	EEX3533(P) OR EEX3517(P) OR EEX3417(CR)
not applicable	EEX3266 Information Systems and Data Management	None
not applicable	EEX3269 Mobile Application Development for Android	None
EEX3517 Software Development for Engineers	EEX3417 Software Development for Engineers	DMX3511(P) OR AGM3203(CR)
not applicable	EEX5453 Power Electronics	EEX4350(P) OR EEX3530(P) OR EEX4351(CA), EEX3531(P) OR EEX4331(CA), EEX3532(P) OR EEX4532(P) OR EEX4332(P) OR EEX4552(P) OR EEX4542(CA), 36 credits at Level 3
not applicable	EEX5280 Creative Design	45 credits
not applicable	EEX5346 Embedded Systems	EEX4547(P) OR EEX3517(P) OR EEX3417(P), EEX3533(P) OR EEX3336(P), [EEX3350(P) OR EEX3351(P), EEX4350(P) OR EEX4351(CA)] OR EEX3530(P), EEX4536(P) OR EEX4436(CA), EEX5535(CA) OR EEX5335(CR) OR EEX5564(CR) OR EEX5536(CR), MHJ5533(P) OR MHJ5342(CR)
not applicable	EEX5348 Electrical Machines and Drives	EEX4548(P) OR EEX4448(CA) OR [EEX4538(P), EEX3532(P)], EEX5453(CR), 36 credits at Level 3
not applicable	EEX5360 Signals and Systems	EEX3533(P) OR EEX3336(P), MHZ4530(P) OR MHZ4553(CR), [MHZ3531(P), MHZ3332(P)] OR [MHZ3551(P), MHZ3552(P)]
not applicable	EEX5564 Computer Architecture and Operating Systems	EEX3533(P) OR EEX3336(P), EEX4536(P) OR EEX4436(CA), 36 credits at Level 3
EEX5534 Data Communications	EEX5434 Data Communications and Networking	EEX3533(P) OR EEX3336(P), EEX3510(P) OR EEX3410(P), [MHZ3531(P), MHZ3332(P)] OR [MHZ3551(P), MHZ3552(P)], DMX3511(P) OR AGM3203(CA)
EEX5543 Physical and Optoelectronics	EEX6253 Physical and Optoelectronics	EEX3530 OR EEX4350(P) OR EEX4351(P), MHZ4530(P) OR MHZ4553(P), 50 credits at Levels 3 & 4
EEX6351 Digital Electronic Systems	EEX5351 Digital Electronic Systems	EEX3510(P) OR EEX3410(P), EEX3533(P) OR EEX4547(P) OR [EEX3517(P) OR

Course (IC)	New/Alternative Course (RC)	Prerequisites
		EEX3417(P), EEX3336(P)], EEX4350(P) OR EEX3530(P) OR EEX4351(P), MHZ3531(P) OR MHZ3551(P), DMX3511(P) OR AGM3203(CA), EEX4536(P) OR EEX4436(CA)
EEX6550 Analog Electronic Systems	EEX6450 Analog Electronic Systems and Instrumentation	EEX3530(P) OR EEX4350(P) OR EEX4351(P), EEX3531(P) OR EEX4331(P), DMX4543(P)DMX5403(CA), 50 credits at Levels 3 & 4
DMX6536 New and Renewable Sources of Energy	DMX7305 Renewable Sources of Energy	MHZ4530(P) OR MHZ4553(P), DMX3535(P) OR DMX3401(P)
DMX6535 Thermal Power Generation	DMX7301 Thermal Power Generation	MHZ4530(P) OR MHZ4553(P), DMX3535(P) OR DMX3401(P)
not applicable	EEX6354 Comprehensive Electrical Engineering Design	EEX3532(P) OR EEX4532(P) OR EEX4332(P) OR EEX4552(P) OR EEX4542(CA), EEX5453(CR), [MHZ3531(P), MHZ3332(P)] OR [MHZ3551(P), MHZ3552(P)], DMX3511(P) OR AGM3203(P), DMX3535(P) OR DMX3401(P)
not applicable	EEY4182 Group Project – Electrical Engineering	30 credits
TAX6539 Ergonomics	TAX6556 Ergonomics	45 credits at level 4 or above

Training modules

Module (IC)	Alternative Course (RC)	Prerequisites
DMW3001 Workshop Practice	DMX3107 Workshop Practice	None
Select only one from:		
EEW3001 Industrial Training I (Electronics)	*Will be offered in for students completing under IC*	DMW3001(P) OR DMX3107(P), EEX3510(P) OR EEX3410(P), [EEX3350(P) OR EEX3351(P), EEX4350(P) OR EEX4351(CR)] OR EEX3530(P)
for RC students	EEW4301 Industrial Training I (Electronics)	EEX4350(P) OR EEX3530(P) OR EEX4351(CR), 36 credits at Level 3
Select only one from:		
EEW4002 Industrial Training II (Power)	*Will be offered in for students completing under IC*	EEW3001(CR) OR ECW3290(P), EEX3510(P) OR EEX3410(CA), EEX4552(P) OR [EEX4532(P), EEX3532(P)] OR EEX4542(CR), EEX4548(P) OR [EEX4538(P), EEX3532(P)] OR EEX4448(CR)
EEW5002 Industrial Training II (Power-Undergraduate)	*Will be offered in for students completing under IC*	EEW3001(CR) OR ECW3290(P), DMX4543(P) OR DMX5403(CA), EEX4552(P) OR [EEX4532(P), EEX3532(P)] OR EEX4542(CA), EEX4548(CA) OR [EEX4538(P) and EEX3532(P)] OR EEX4448(CA), EEX5832(P) OR EEX5352(CR)
for RC students	EEW4502 Industrial Training II (Electrical Power)	EEW3001(CA) OR EEW3590(P) OR EEW4301(CR), EEX4552(P) OR [EEX4532(P), EEX3532(P)] OR EEX4542(CA), EEX4548(P) OR [EEX4538(P), EEX3532(P)] OR EEX4448(CA), 36 credits
for RC students	EEW6502 Industrial Training II (Electrical Power - Undergraduate)	EEW3001(CA) OR EEW3590(P) OR EEW4301(CR), EEX4552(P) OR [EEX4532(P), EEX3532(P)] OR EEX4542(P), EEX4548(CA) OR [EEX4538(P), EEX3532(P)] OR EEX4448(CA), EEX5832(P) OR EEX5352(CR), 60 credits

Curriculum for Electronic and Communication Engineering Specialisation

All the courses of the IC have been discontinued. If a student needs a course to fulfil the award requirements under IC, such student is required to register for the alternative course/s of the RC given in the second column.

Compulsory Courses

Course (IC)	Alternative Course (RC)	Prerequisites
Level 3		
MHZ3531 Engineering Mathematics IA MHZ3332 Engineering Mathematics IB *See the note below*	MHZ3551 Engineering Mathematics I	None
	MHZ3552 Engineering Mathematics II	None
DMX3511 Communicating Engineering Information	DMX3305 Engineering Design Graphics	None
	AGM3203 Communication Skills	None
DMX3512 Basic Thermo Fluids	DMX3401 Fluid Mechanics and Thermodynamics	None
EEX3510 Electro Techniques	EEX3410 Introduction to Electrical Engineering	MHZ3531(CA) OR MHZ3552(CR)
EEX3531 Electrical Circuits & Measurements	EEX3331 Electrical Measurements and Instrumentation	EEX3510(P) OR EEX3410(CR)
	EEX4331 Circuit Theory and Design	EEX3510(P) OR EEX3410(CA), [MHZ3531(CA), MHZ3332(CA)] OR [MHZ3551(CA), MHZ3552(CA)]
EEX3350 Electronics I	EEX3351 Electronics I	EEX3510(P) OR EEX3410(CR)
EEX3533 Communication & IT	EEX3336 Communications and Computer Technology	DMX3511(P) OR AGM3203(CR), EEX3510(P) OR EEX3410(CR), EEX4547(P) OR EEX3517(P) OR EEX3417(CR)
EEX3532 Electrical Power	EEX4332 Electrical Power	EEX3510(P) OR EEX3410(CA), MHZ3531(CA) OR MHZ3551(CA)
Level 4		
MHZ4530 Engineering Mathematics II*	MHZ4553 Engineering Mathematics III	[MHZ3531(CA), MHZ3332(CA)] OR [MHZ3551(CA), MHZ3552(CA)]
EEX4350 Electronics II	EEX4351 Electronics II	EEX3510(P) OR EEX3410(CA), EEX3350(P) OR EEX3351(CA), MHZ3531(CA) OR [MHZ3551(P), MHZ3552(CA)], DMX3511(P) OR AGM3203(CA)
EEX4533 Communications	EEX4330 Communications	EEX3510(P) OR EEX3410(P), [MHZ3531(P), MHZ3332(P)] OR [MHZ3551(P), MHZ3552(P)], EEX3533(P) OR EEX3336(CA)
EEX4536 Microprocessors and Interfacing	EEX4436 Microprocessors and Interfacing	MHZ3531(P) OR MHZ3551(P), DMX3511(P) OR AGM3203(CA), [EEX3533(P) OR (EEX3336(P), EEX3517(P) OR EEX3417(P)), [EEX3350(P) OR EEX3351(P), EEX4350(P) OR EEX4351(CR)] OR EEX3530(P) OR DMX3572(CA) OR DMX3574(P) OR DMX3304(CA)
DMX4543 Control Systems Engineering*	DMX5403 Control Systems Engineering	MHZ4530(P) OR MHZ4553(CR), 30 credits in X category
Level 5		
MHZ5530 Engineering Mathematics III	MHZ5554 Engineering Mathematics IV	[MHZ3531(P), MHZ3332(P)] OR [MHZ3551(P), MHZ3552(P)], MHZ4530(CA) OR MHZ4553(CA)
EEX5533 Communication Theory & Systems	EEX5333 Communication Theory and Systems	EEX3533(P) OR EEX3336(P), EEX4533(P) OR EEX4330(P), MHZ4553(P), 36 credits at Level 3

Course (IC)	Alternative Course (RC)	Prerequisites
EEX5534 Data Communications	EEX5434 Data Communications and Networking	EEX3533(P) OR EEX3336(P), EEX3510(P) OR EEX3410(P), [MHZ3531(P), MHZ3332(P)] OR [MHZ3551(P), MHZ3552(P)], DMX3511(P) OR AGM3203(CA)
EEX5543 Physical and Optoelectronics	EEX6253 Physical and Optoelectronics	EEX3530(P) OR EEX4350(P) OR EEX4351(P), MHZ4530(P) OR MHZ4553(P), 50 credits at Levels 3 & 4
Level 6		
EEX6351 Digital Electronic Systems	EEX5351 Digital Electronic Systems	EEX3510(P) OR EEX3410(P), EEX3533(P) OR EEX4547(P) OR [EEX3517(P) OR EEX3417(P), EEX3336(P)], EEX4350(P) OR EEX3530(P) OR EEX4351(P), MHZ3531(P) OR MHZ3551(P), DMX3511(P) OR AGM3203(CA), EEX4536(P) OR EEX4436(CA)
EEX6541 Field Theory	EEX6441 Electromagnetism and Wave Propagation	MHZ4530(P) OR MHZ4553(P), MHZ5530(P) OR MHZ5554(CR), 50 credits at Levels 3 & 4
EEX6550 Analogue Electronic Systems	EEX6450 Analog Electronic Systems and Instrumentation	EEX3531(P) OR EEX4331(P), EEX4350(P) OR EEX4351(CR) OR EEX3530(P), DMX4543(P) OR DMX5403(P), 50 credits at Levels 3 & 4
EEX6543 Microwave Engineering and Applications	EEX7333 Microwave Devices and Antennas	MHZ4530(P) OR MHZ4553(P), EEX6541(CA) OR EEX6441(P), 80 credits
EEY6D95 Individual project – Type B (Computer, Electrical, Electronic and Communication)	EEY7883 Engineering Research Project (Electronics and Communication)	EEX5533(P) OR EEX5333(P), EEX6351(P) OR EEX5351(P), EEX5150(P), EEX6183(CA), 90 credits including 60 credits in X category
EEY6A96 Group project (Computer, Electrical, Electronic and Communication)		

Note: A student who has failed/repeated at least one of the courses from MHZ3531 *and* MHZ3332 *of IC, he/she* ***should*** *register for equivalent courses of the RC,* MHZ3551 *and* MHZ3552*, and obtain backward conversion to* MHZ3531 *and* MHZ3332*, after passing both the courses of RC. Note that no one –to- one conversion is given.*

*MHZ4530 Engineering Mathematics II and DMX4543 Control Systems Engineering are not compulsory for Higher Diploma

Elective courses

Course (IC)	New/Alternative (RC)	Prerequisites
EEX3517 Software Development for Engineers	EEX3417 Software Development for Engineers	DMX3511(P) OR AGM3203(CR)
not applicable	EEX3262 Introduction to Object Oriented Design and Programming	EEX3533(P) OR EEX3517(P) OR EEX3417(CR)
not applicable	EEX3266 Information Systems and Data Management	None
not applicable	EEX3269 Mobile Application Development for Android	None
EEX4534 Electrical Installations	EEX4434 Electrical Installations	EEX3510(P) OR EEX3410(P), DMX3511(P) OR DMX3305(P), EEX3532(P) OR EEX4532(P) OR EEX4332(CR) OR EEX4552(P) OR EEX4542(CR)
not applicable	EEX5150 Electronic Circuit Design	EEX3531 (P) OR EEX4331[P], 35 credits at Level 3
not applicable	EEX5280 Creative Design	45 credits
not applicable	EEX5360 Signals and Systems	EEX3533(P) OR EEX3336(P), MHZ4530(P) OR MHZ4553(CR), [MHZ3531(P), MHZ3332(P)] OR [MHZ3551(P), MHZ3552(P)]
not applicable	EEX5346 Embedded Systems	EEX4547(P) OR EEX3517(P) OR EEX3417(P), EEX3533(P) OR EEX3336(P), [EEX3350(P) OR EEX3351(P), EEX4350(P) OR EEX4351(CA)] OR EEX3530(P), EEX4536(P) OR EEX4436(CA), EEX5535(P) OR EEX5335(CR)

		OR EEX5564(CR) OR EEX5536(CR), MHJ5533(P) OR MHJ5342(CR)
not applicable	EEX5453 Power Electronics	EEX4350(P) OR EEX3530(P) OR EEX4351(CA), EEX3531(P) OR EEX4331(CA), EEX3532(P) OR EEX4532(P) OR EEX4332(P) OR EEX4552(P) OR EEX4542(CA), 36 credits at Level 3
EEX5536 Computer Architecture	EEX5536 Computer Architecture	EEX3533(P) OR EEX4547(P) OR [EEX3517(P) OR EEX3417(P), EEX3336(P)], EEX3530(P) OR EEX3350(P) OR EEX3351(P), [MHZ3531(P), MHZ3332(P)] OR MHZ4553(P), EEX4536(P) OR EEX4436(CA), 30 credits
not applicable	EEX5564 Computer Architecture and Operating Systems	EEX3533(P) OR EEX3336(P), EEX4536(P) OR EEX4436(CA), 36 credits at Level 3
EEX6534 Digital Signal Processing	EEX7434 Digital Signal Processing	EEX5360(P), 45 credits
DMX6570 Factory Automation	DMX7304 Factory Automation	60 Credits in X category
EEX6536 Processor Design	EEX7436 Processor Design	EEX6351(P) OR EEX6830(P) OR EEX5351(CA), EEX5536(CA), EEX3533(P) OR EEX4547(P) OR [EEX3517(P) OR EEX3417(P), EEX3336(P)], DMX3511(P) OR AGM3203(P), MHZ3550(P) OR MHZ3551(P), EEX4536(P) OR EEX4436(CA)
EEX6539 Wireless Communication	EEX6339 Wireless Communications	MHZ4530(P) OR MHZ4553(P), EEX5533(P) OR EEX5333(CA), 50 credits at Levels 3 & 4
not applicable	EEY4183 Group Project - Electronics and Communication	30 Credits

Training modules

Module (IC)	Alternative Course (RC)	Prerequisites
DMW3001 Workshop Practice	DMX3107 Workshop Practice	None
Select one from:		
EEW3001 Industrial Training I (Electronics)	*Will be offered for students completing under IC*	DMW3001(P) OR DMX3107(P), EEX3510(P) OR EEX3410(P), [EEX3350(P) OR EEX3351(P), EEX4350(P) OR EEX4351(CR)] OR EEX3530(P)
for RC students	EEW4403 Industrial Training I (Electronics and Communications)	DMW3001(P) OR DMX3107(P). EEX4350(P) OR EEX3530(P) OR EEX4351(CR), EEX4533(P) OR EEX4330(CR), 36 credits at Level 3 and 4
Select one from:		
EEW4003 Industrial Training II (Communication)	*Will be offered for students completing under IC*	EEW3001(CR) OR ECW3290(P), EEX3533(P) OR EEX3336(CA), EEX4533(P) OR EEX4330(CR)
EEW5003 Industrial training II (Communication-undergraduate)	*Will be offered for students completing under IC*	EEW3001(CR) OR ECW3290(P), DMX4543(P) OR DMX5403(CR), EEX5533(P) OR EEX5333(CR), EEX5534(P) OR EEX5434(CA)
for RC students	EEW5403 Industrial Training II (Electronics and Communications)	DMW3001(P) OR DMX3107(P), EEX4350(P) OR EEX3530(P) OR EEX4351(P), EEX4533(P) OR EEX4330(P), 45 credits

Curriculum for Mechanical Engineering Specialisation

All the courses of the IC have been discontinued. If a student needs a course to fulfil the award requirements under IC, such student is required to register for the alternative course/s of the RC given in the second column.

Level 3 Compulsory Courses

Course (IC)	Alternative Course (RC)	Prerequisite
MHZ3531 Engineering Mathematics IA MHZ3332 Engineering Mathematics IB *See the note below*	MHZ3551 Engineering Mathematics I	None
	MHZ3552 Engineering Mathematics II	None
EEX3510 Electro Techniques	EEX3410 Introduction to Electrical Engineering	MHZ3531(CA) OR MHZ3552(CR)
DMX3511 Communicating Engineering Information	DMX3305 Introduction to Engineering Design Graphics	None
	AGM3203 Communication Skills	None
DMX3533 Workshop Technology	DMX3203 Introduction to Engineering Materials	None
	DMX3206 Introduction to Manufacturing Processes	DMX3107(CR) OR DMW3001(P)
DMX3534 Engineering Drawing	DMX4201 Advanced Engineering Design Graphics	DMX3305(P) OR DMX3511(P)
DMX3535 Thermo-fluids	DMX3401 Fluid Mechanics and Thermodynamics	None
DMX3574 Electronics, Sensors and Actuators	DMX3304 Applied Electronics	EEX3410(P) OR EEX3510(CR)
DMW3001 Workshop Practice	DMX3107 Workshop Practice	None

Note: A student who has failed/repeated at least one of the courses from MHZ3531 *and* MHZ3332 *of IC, he/she* ***should*** *register for equivalent courses of the RC,* MHZ3551 *and* MHZ3552*, and obtain backward conversion to* MHZ3531 *and* MHZ3332*, after passing both the courses of RC. Note that no one –to- one conversion is given.*

Level 4 Compulsory Courses

Course (IC)	Alternative Course (RC)	Prerequisite
MHZ4530 Engineering Mathematics II*	MHZ4553 Engineering Mathematics III	[MHZ3531(CA), MHZ3332(CA)] OR [MHZ3551(CA), MHZ3552(CA)]
DMX4575 Strength of Materials I	DMX4205 Strength of Materials I	[DMX3302(CA) OR DMX4576(CA) OR DMX4835(CA)], [[MHZ3551(CA),MHZ3552(CA)] OR [MHZ3531(CA),MHZ3332(CA)]]
DMX4576 Mechanics of Machines	DMX3302 Engineering Mechanics	[[MHZ3551(CA),MHZ3552(CA)] OR [MHZ3531(CA),MHZ3332(CA)]]
	DMX4204 Machine Dynamics	[DMX3302(CA) OR DMX4576(CA) OR DMX4835(CA)],[[MHZ3551(CA), MHZ3552(CA)] OR [MHZ3531(CA), MHZ3332(CA)]]
DMX4533 Materials Engineering	DMX5204 Materials Engineering	[DMX3203(P) OR DMX3533(P) OR DMX4533(P)]
EEX4536 Microprocessors and Interfacing	EEX4436 Microprocessors and Interfacing	[DMX3574(P) OR DMX3304(P)],[EEX3517(P) OR EEX3417(P)],[MHZ3531(P) OR MHZ3551(P)],[DMX3511(P) OR AGM3203(P)]
Select 2 Courses:		
DMX4530 Production Technology	DMX4212 Manufacturing Engineering	[DMX3206(CA) OR DMX3533(CA)],[[MHZ3551(CA),MHZ 3552(CA)] OR [MHZ3531(CA),MHZ3332(CA)]]

Course (IC)	Alternative Course (RC)	Prerequisite
DMX4335 Production Management *(offered in 2020/21)*	None	MHZ3531(CA) OR (MHZ3551(CA)
DMX4532 Automobile Technology	DMX4208 Automobile Technology	DMX3401(CA) OR DMX3535(CA)
DMX4342 Applied Automotive Electronics *(offered in 2020/21)*	None	DMX4208(CR), DMX3574(CA) or EEX3534(CA)

*MHZ4530 Engineering Mathematics II is not compulsory for Higher Diploma

Levels 5 and 6 Compulsory Courses

Course (IC)	Alternative Course(RC)	Prerequisites
MHZ5530 Engineering Mathematics III	MHZ5554 Engineering Mathematics IV	[[MHZ3531(P),MHZ3332(P)] OR [MHZ3551(P),MHZ3552(P)]],[MHZ4553(CA) OR MHZ4530(P)]
DMX5531 Applied Thermodynamics	DMX4202 Applied Thermodynamics I	DMX3401(P) OR DMX3535(P)
	DMX5205 Applied Thermodynamics II	[DMX4202(CA) OR DMX5531(CA)],[MHZ4553(CA) OR MHZ4530(CA)]
DMX5532 Strength of Materials II	DMX5302 Strength of Materials II	[DMX3302(P)OR DMX4576(CA) OR DMX4835(CA)],[DMX4205(CA) OR DMX4575(CA) OR DMX4835(CA)], [[MHZ3551(P),MHZ3552(P)] OR [MHZ3531(P),MHZ3332(P)]]
DMX5533 Dynamics of Mechanical Systems	DMX5201 Advanced Engineering Mechanics	[DMX3302(CA) OR DMX4576(CA) OR DMX4835(CA)],[DMX4204(CA) OR DMX4572(CA) OR DMX4576(CA) OR DMX4835(CA)],[DMX4205(CA) OR DMX4575(CA) OR DMX4835(P)], [[MHZ3551(P),MHZ3552(P)] OR [MHZ3531(P),MHZ3332(P)]]
DMX5577 Machine Design	DMX4306 Design of Machine Elements	[DMX3302(CA) OR DMX4576(CA) OR DMX4835(CA)],[DMX3203(CA) OR DMX3533 OR DMX4533(CA)], [DMX3305(CA) OR DMX3511(CA)]
	DMX5307 Mechanical Engineering Design Project	DMX4306(CA),[DMX4204(CA) OR DMX4572(CA) OR DMX4576(CA) OR DMX4835(CA)],[DMX4205(CA) OR DMX4575(CA) OR DMX4835(CA)], [DMX5403(CR) OR DMX4543(P)]
DMX6540 Industrial Engineering	DMX6301 Industrial Engineering	DMX4212(P) OR DMX4530(P)
DMX6578 Fluid Mechanics	DMX4203 Applied Fluid dynamics I	DMX3401(P) OR DMX3535(P)
	DMX5206 Applied Fluid dynamics II	[DMX4203(CA) OR DMX6578(CA) OR DMX5530(P)],[MHZ4530(CA) OR MHZ4553(CA)]
Select one from:		
DMY6D95 Individual Project Type B (Mechanical)	DMY7880 Engineering Research Project (Mechanical)	MEX6180(CA), Pass in 50 credits in X category
DMY6A96 Group Project (Mechanical)	DMY7880 Engineering Research Project (Mechanical)	MEX6180(CA), Pass in 50 credits in X category
(a) DMY6397 Project Identification & literature survey	DMY7880 Engineering Research Project (Mechanical)	For (a): MEX6180(CA), Pass in 50 credits in X category
And (b) DMY6A98 Individual Project Type A (Mechanical)		For (b): MEX6180(CA), Pass in 50 credits in X category

Course (IC)	Alternative Course (RC)	Prerequisites
Select minimum of 2 courses:		
DMX6531 Automobile Engineering	DMX5208 Automobile Engineering	DMX4208(P) OR DMX4532(P)
DMX6532 Vehicle Dynamics	DMX5210 Vehicle Dynamics and Design of Automotive Components	DMX4208(P) OR DMX4532(P)
DMX6534 Advanced Manufacturing Technology	DMX5212 Computer Aided Design and Manufacturing	[DMX4201(CA) OR DMX3534(CA)], [DMX4212(CA) OR DMX4530(CA)]
DMX6535 Thermal Power Generation	DMX7301 Thermal Power Generation	[[DMX4202(P),DMX5205(CA)] OR DMX5531(P)]
DMX6536 New and Renewable Sources of Energy	DMX7305 Renewable Sources of Energy	[MHZ4553(P) OR DMX4530(P)], [DMX4202(P) OR DMX5531(P)] ,[DMX4203(P) OR DMX6578(P) OR DMX5530(P)]
DMX6570 Factory Automation	DMX7304 Factory Automation	[DMX4409(P) OR DMX4571(P)], [DMX5403(P) OR DMX4543(P)] ,DMX7303(CR)
DMX6571 Robotics	DMX7303 Control of Robotic Manipulators	[DMX5201(P) OR DMX5533(P)], [DMX5403(P) OR DMX4543(P)], [MHZ5554(P) OR MHZ5530(P)]

Industrial Training modules

Module(IC)	Alternative Course (RC) to offer in 2022/23	Prerequisites
DMW4002 Industrial Training I (Mechanical)	DMW4801 Industrial Training (Mechanical – Diploma)	[DMW3001(P) OR DMX3107(P)], [EEX3510(CA) OR EEX3410(CA)], [DMX3533(CA) OR (DMX3203(CA) and DMX3206(CA)))
DMW5002 Industrial Training II (Mechanical)	DMW6801 Industrial Training (Mechanical – Undergraduate)	[DMX3533(P) OR (DMX3203(CA) and DMX3206(CA))], DMX4002(CR)

Curriculum for Mechatronics Engineering Specialisation

All the courses of the IC have been discontinued. If a student needs a course to fulfil the award requirements under IC, such student is required to register for the alternative course/s of the RC given in the second column.

Level 3 Compulsory Courses

Course (IC)	Alternative Course (RC)	Prerequisite
MHZ3531 Engineering Mathematics IA MHZ3332 Engineering Mathematics IB *See the note below*	MHZ3551 Engineering Mathematics I	None
	MHZ3552 Engineering Mathematics II	None
EEX3510 Electro Techniques	EEX3410 Introduction to Electrical Engineering	MHZ3531(CA) OR MHZ3552(CR)
DMX3511 Communicating Engineering Information	DMX3305 Introduction to Engineering Design Graphics	None
	AGM3203 Communication Skills	None
DMX3535 Thermo-Fluids	DMX3401 Fluid Mechanics and Thermodynamics	None
DMX3572 Applied Electronics	DMX3304 Applied Electronics	EEX3410 (CR)
DMX3573 Modelling of Mechatronics systems *(last Offered in 2020/21)*	None	[MHZ3231(EL) OR MHZ3531(CA) or MHZ3551(CR)], [EEX3510(P) OR EEX3410(CR)]
DMX3374 Principles of design *(Last Offered in 2020/21)*	None	None
DMK3270 C Programming	EEX3417 Software Development for Engineers	DMX3511(P) OR AGM3203(CR)
DMW3001 Workshop Practice	DMX3107 Workshop Practice	None

Note: A student who has failed/repeated at least one of the courses from MHZ3531 *and* MHZ3332 *of IC, he/she* ***should*** *register for equivalent courses of the RC,* MHZ3551 *and* MHZ3552*, and obtain backward conversion to* MHZ3531 *and* MHZ3332*, after passing both the courses of RC. Note that no one –to- one conversion is given.*

Level 4 Compulsory Courses

Course (IC)	Alternative Course (RC)	Prerequisite
MHZ4530 Engineering Mathematics II*	MHZ4553 Engineering Mathematics III	[MHZ3531(CA), MHZ3332(CA)] OR [MHZ3551(CA), MHZ3552(CA)]
DMX4571 Sensors and Actuators	DMX4409 Sensors	EEX3410(CA) OR EEX3510 (CR), DMX3304(CA) OR DMX3572(CA) OR DMX3574(CA), MHZ3551(CA) OR MHZ3531(CA) , MHZ3552(CA) OR MHZ3332(CA)
	DMX4410 Electrical and Pneumatic Machines	[EEX3410(CA) OR DMX3535(P)], [DMX3304(CA) OR DMX3572(CA) OR DMX3574(CA)],[[MHZ3551(CA), MHZ3552(CA)] OR [MHZ3531(CA), MHZ3332(CA)]]
DMX4572 Vibration and fault diagnosis	DMX4204 Machine Dynamics	[DMX3302(CA) OR DMX4576(CA) OR DMX4835(CA)],[[MHZ3551(CA), MHZ3552(CA)] OR [MHZ3531(CA), MHZ3332(CA)]]
DMX4573 Mechatronics Product design *(Last offered in 2020/21)*	None	DMX3573(CA), DMX3374(CA), DMX4409(CR),
EEX4536 Microprocessors and interfacing	EEX4436 Microprocessors and Interfacing	[DMX3572(P) OR DMX3304(P)], [EEX3517(P) OR EEX3417(P)], [MHZ3531(P) OR MHZ3551(P)], [DMX3511(P) OR AGM3203(P)]

Course (IC)	Alternative Course (RC)	Prerequisite
DMX4543 Control System engineering	DMX5403 Control Systems Engineering	MHZ5554 (CR) OR MHZ5530(P), 30 credits in X category courses (P)
DMX4835 Applied Mechanics & Strength of Materials	DMX3302 Engineering Mechanics	[[MHZ3551(CA),MHZ3552(CA)] OR [MHZ3531(CA),MHZ3332(CA)]]
	DMX4204 Machine Dynamics	[DMX3302(CA) OR DMX4576(CA) OR DMX4835(CA)],[[MHZ3551(CA), MHZ3552(CA)] OR [MHZ3531(CA), MHZ3332(CA)]]
	DMX4205 Strength of Materials I	[DMX3302(CA) OR DMX4576(CA) OR DMX4835(CA)],[[MHZ3551(CA), MHZ3552(CA)] OR [MHZ3531(CA), MHZ3332(CA)]]

*MHZ4530 Engineering Mathematics II is not compulsory for Higher Diploma

Levels 5 and 6 Compulsory Courses

Course (IC)	Alternative Course (RC)	Prerequisites
MHZ5530 Engineering Mathematics III	MHZ5554 Engineering Mathematics IV	[[MHZ3531(P), MHZ3332(P)] OR [MHZ3551(P), MHZ3552(P)]] , [MHZ4553(CA) OR MHZ4530(CA)]
DMX5570 Power electronics & motor drives	DMX5313 Power Electronics and Motor Drives	[DMX3304(P) OR DMX3572(P) OR DMX3574(P)], [DMX4410(CA) OR DMX4571(CA)]
DMX5571 Machine vision	DMX5314 Machine vision	[MHZ4530(CA) OR MHZ4553(CA)], [DMX4409(CA) OR DMX4571(CA)]
DMX5572 Materials & manufacturing technology	DMX3203 Introduction to Engineering Materials	None
	DMX3206 Introduction to Manufacturing Processes	DMX3107(CR) OR DMW3001(P)
DMX5533 Dynamics of Mechanical Systems	DMX5201 Advanced Engineering Mechanics	[DMX3302(CA) OR DMX4576(CA) OR DMX4835(CA)], [DMX4204(CA) OR DMX4572(CA) OR DMX4576(CA) OR DMX4835(CA)], [DMX4205(CA) OR DMX4575(CA) OR DMX4835(CA)], [[MHZ3551(P),MHZ3552(P)] OR [MHZ3531(P),MHZ3332(P)]]
DMX6570 Factory Automation	DMX7304 Factory Automation	[DMX4409(P) OR DMX4571(P)], [DMX5403(P) OR DMX4543(P)], [DMX7303(CR) OR DMX6570(P)]
DMX6571 Robotics	DMX7303 Control of Robotics Manipulators	[DMX5201(P) OR DMX5533(P)], [DMX5403(P) OR DMX4543(CA)], [MHZ5554(P) OR MHZ5530(P)]
DMX6573 Advanced Control Engineering	DMX5315 Artificial Intelligence	[DMX5403(CA) OR DMX4543(CA)], [MHZ5554(CR) OR MHZ5530(P)]
	DMX6306 Modern Control Systems	[DMX3206(P) OR DMX3533(P) OR DMX5572(P)], [DMX4410(P) OR DMX4571(P)], [MHZ4553(P) OR MHZ4530(P)]
	DMX7306 Intelligence Control Systems	DMX6305(CR), [DMX5315(CA) OR DMX6573(CA)], [DMX5403(P) OR DMX4543(P)]
Select one from:		
DMY6D73 Mechatronics Product Design Project (Individual)	DMY7881 Engineering Research Project (Mechatronics)	DMX6180(CA), Pass in 50 credits in X category
DMY6A74 Mechatronics Product Design Project (Group)	DMY7881 Engineering Research Project (Mechatronics)	DMX6180(CA), Pass in 50 credits in X category

Industrial Training modules

Module IC)	Alternative Course (RC) to offer in 2022/23	Prerequisites
DMW4003 Industrial Training I (Mechatronics)	DMW4802 Industrial Training (Mechatronics – Diploma)	[DMW3001(P) OR DMX3107(P)], [DMX3374(P)], [EEX3510(P) OR EEX3410(P)], [DMX3511(P) OR DMX3305(P)], DMX3573(CR)
DMW5003 Industrial Training II (Mechatronics)	DMW6802 Industrial Training (Mechatronics – Undergraduate)	[DMX3571(P)] OR DMX4835(P)] OR [DMX3302(P) and DMX4204(P) and DMX4205(P)], DMX3572(P), DMX4573(CR), DMW4003(CR)

Curriculum for Textile and Clothing Engineering Specialisation

All the courses of the IC have been discontinued. If a student needs a course to fulfil the award requirements under IC, such student is required to register for the alternative course/s of the RC given in the second column.

Compulsory Courses

Course (IC)	Alternative Course (RC)	Prerequisite
MHZ3531 Engineering Mathematics IA MHZ3332 Engineering Mathematics IB *See the note below*	MHZ3551 Engineering Mathematics I	None
	MHZ3552 Engineering Mathematics II	None
EEX3510 Electro Techniques	EEX3410 Introduction to Electrical Engineering	MHZ3531(CA) OR MHZ3552(CR)
DMX3511 Communicating Engineering Information	DMX3305 Introduction to Engineering Design Graphics	None
	AGM3203 Communication Skills	None
DMX3535 Thermo-Fluids	DMX3401 Fluid Mechanics and Thermodynamics	None
DMW3001 Workshop Practice	DMX3107 Workshop Practice	None
TAX3539 Garment Analysis and Sewing Machinery	TAX3331 Garment Analysis and Sewing Machinery	None
TAX3531 Fibre Science and Technology	TAX3458 Fibre Science and Technology	None
TAX3532 Yarn Manufacture I	TAX3459 Yarn Manufacture I	None
TAI3541 Production Planning and Organisation	TAX4438 Production Planning and Organisation	15 Credits (P)
Level 4		
MHZ4530 Engineering Mathematics II*	MHZ4553 Engineering Mathematics III	[MHZ3531(CA), MHZ3332(CA)] OR [MHZ3551(CA), MHZ3552(CA)]
DMX4576 Mechanics of Machines	DMX3302 Engineering Mechanics	MHZ3551(CR) OR MHZ3552(CR)
	DMX4204 Machine Dynamics	[DMX3302(CA)], [[MHZ3551(CA), MHZ3552(CA)] OR [MHZ3531(CA), MHZ3332(CA)]]
DMX4543 Control Systems Engineering	DMX5403 Control Systems Engineering	MHZ4553 (CR), 30 credits in X category courses (P)
TAX4532 Textile Colouration	TAX5551 Textile Colouration	45 Credits (P)
TAX4533 Quality Assurance for Textiles and Clothing	TAX4539 Quality Assurance for Textile and Clothing	15 Credits (P)
TAX4538 Garment Manufacture	TAX4540 Garment Manufacture	TAX3539 (P) or TAX3331 (CA), 15 Credits (P)
TAX4560 Woven Fabric Technology *(Continued to be offered)*	None	15 Credits (P)
Level 5		
TAX5560 Pattern Development	TAX4462 Pattern Development	15 credits (P)
TAX5562 Knitting Technology	TAX4361 Knitting Technology	15 Credits (P)
MHZ5530 Engineering Mathematics III	MHZ5554 Engineering Mathematics IV	[MHZ3531(P), MHZ3332(P)] OR [MHZ3551(P), MHZ3552(P)], MHZ4530(CA) OR MHZ4553(CA)
TAX5532 Yarn and Fabric Mechanics	TAX7464 Yarn and Fabric Mechanics	[MHZ3531(P), MHZ3332(P)] or [MHZ3551(P), MHZ3552(P)] , TAX4560 (P), 45 Credits (P) at level 4 and above
TAX5534 Plant Utilities	TAX5547 Plant Utilities	45 Credits (P)

Course (IC)	Alternative Course (RC)	Prerequisite
TAM5861 Textile Management and Merchandising (Not offered in 2021/22)	None	None
Level 6		
Select one from:		
TAY6D95 Individual Project- Type B (Textile & Apparel)	TAY7880 Engineering Research Project (Textile and Clothing Engineering)	TAX6180 (CA), 45 Credits (P) at level 4 and above
TAY6A96 Group Project (Textile & Apparel)	TAY7880 Engineering Research Project (Textile and Clothing Engineering)	TAX6180 (CA), 45 Credits (P) at level 4 and above
(a) TAY6397 Project Identification & literature survey (Textile & Apparel) (b) TAY6A98 Individual Project - Type A	TAY7880 Engineering Research Project (Textile and Clothing Engineering)	TAX6180 (CA), 45 Credits (P) at level 4 and above

Note: A student who has failed/repeated at least one of the courses from MHZ3531 *and* MHZ3332 *of IC, he/she* ***should*** *register for equivalent courses of the RC,* MHZ3551 *and* MHZ3552*, and obtain backward conversion to* MHZ3531 *and* MHZ3332*, after passing both the courses of RC. Note that no one –to- one conversion is given.*

*MHZ4530 Engineering Mathematics II is not compulsory for Higher Diploma

Elective courses

Course (IC)	Alternative Course (RC)	Prerequisite
TAX6533 Technical Textiles	TAX6454 Technical Textiles	45 Credits (P) at level 4 and above
TAX6335 Textile Product Engineering	TAX6263 Textile Product Engineering	45 Credits (P) at level 4 and above
TAX6539 Ergonomics	TAX6556 Ergonomics	45 Credits (P) at level 4 and above
TAX6560 Advanced Woven Fabric Technology	TAX6265 Advanced Weaving Preparation and Machinery	TAX4560 (CA), 45 Credits (P) at level 4 and above
TAX6561 Yarn Manufacture II	TAX6366 Yarn Manufacture II	TAX3532 (P) or TAX3459 (P) , 45 Credits (P) at level 4 and above
TAX6362 Advanced Coloration	TAX6367 Advanced Coloration	TAX4532 (P) or TAX5551 (CA) or TAX4534 (P) or TAX4571 (P), 45 Credits (P) at level 4 and above
TAX6563 Speciality Fabrics	TAX7368 Speciality Fabrics	TAX5562 (P) or TAX4361 (P), TAX4560 (P), 45 Credits (P) at level 4 and above
TAX6564 Nonwoven Textiles	TAX5349 Nonwoven Textiles	TAX3531 (P) or TAX3458 (P) or TAX3537 (P) or TAX3530 (P), 45 Credits (P)

Industrial Training Modules

Module (IC)	Alternative Course (RC) to offer in 2022/23	Prerequisites
Select any 2 modules:		
TAW4001 Industrial Training (Apparel I)*	TAW4401 Specific Training I (Apparel)	TAI3535 (P) or [TAX3539(P) or TAX3331 (P), TAI3541(P) or TAX4438 (CR), 15 Credits (P)] or [TAX3539(P) or TAX3331 (CA), TAX4438 (CR), 18 Credits (P)]
TAW5003 Industrial Training (Yarn manufacture) *	TAW5403 Specific Training II (Yarn Manufacture)	[TAX3532(P) or TAX3459 (P), 15 Credits (P)] or [TAX3459 (CA), 18 Credits (P)]

TAW5004 Industrial Training (Weaving)*	TAW5404 Specific Training II(Weaving)	[TAX4560 (P), 15 Credits (P)] or [TAX4560 (CA), 18 Credits (P)]
TAW5005 Industrial Training (Chemical processing) *	TAW5405 Specific Training II (Chemical Processing)	[TAX4532(P) or TAX4534(P) or TAX4571(P) or TAX5551(CR), 15 Credits (P)] or [TAX4571(CA), 18 Credits (P)]
TAW5006 Industrial Training (Knitting)*	TAW5406 Specific Training II(Knitting)	[TAX5562 (P) or TAX4361 (P) or TAX4542 (P) or TAX4441(P), 15 Credits (P)] or [TAX4361 (CA) or TAX4441(CA), 18 Credits (P)]

* *Will be offered in 2021/22 for students completing under IC*

Exclusive Course Combinations for BTechHons(Eng) Study Programme

EEX4332 and EEX4552
EEX4332 and EEX4548
EEX3530 and DMX3572
EEX3532 and EEX4548
EEX3350 and EEX3530
EEX3350 and DMX3572
EEX3350 and DMX3304
EEX3351 and DMX3304
EEX3351 and DMX3572
EEX4542 and DMX3572
EEX4542 and DMX3304
EEX4552 and DMX3304
EEX4547 and EEX4537
EEX4548 and EEX4538
EEX4552 and EEX3532
EEX5543 and EEX5539
EEX5547 and EEX5537
EEX5545 and EEX5540
EEX6351 and EEX6830
EEX6550 and EEX6830
EEX6543 and EEX6833
DMX6573 and EEX6542
TAX3539 and TAI3539
TAI4538 and TAX4538
TAX4531 and TAX5562
TAM4539 and DMM5836
TAM4539 and TAM5861
TAM5861 and DAM5836

Exclusive Course Combinations for BTechHons(Eng) Study Programme (additional list)

Courses offered by the Department of Civil Engineering

CVX3531 and CVX3441
CVX3532 and CVX3340
CVX3533 and CVX4342
CVX3534 and CVX3442
CVX4530 and CVX4343
CVX4531 and CVX4445
CVX3530 and CVX4446
CVX4532 and CVX4446
CVX4533 and CVX4347
CVX4534 and CVX4348
CVX4535 and CVX4349
CVX4538 and CVX4350
CVX5530 and CVX5440
CVX5531 and CVX4240
CVX5531 and CVX4241
CVX5531 and CVX5241
CVX5531 and CVX5242
CVX5532 and CVX4344
CVX5533 and CVX5443
CVX6530 and CVX6444
CVX6530 and CVX7241
CVX6831 and CVX6546
CVX6832 and CVX7640
CVX6533 and CVX6345
CVY6D95 and CVY7880
CVY6A96 and CVY7880
CVY6397 and CVX6180
CVY6A98 and CVY7880
CVW4002 and CVW4802
CVW5003 and CVW6803

Courses offered by the Department of Electrical and Computer Engineering

EEX3350 and EEX3351
EEX3510 and EEX3410
EEX3517 and EEX3417
EEX3533 and EEX3336
EEX3531 and EEX3331
EEX3531 and EEX4331
EEX3532 and EEX4332
EEX4350 and EEX4351
EEX4533 and EEX4330
EEX4534 and EEX4434
EEX4535 and EEX4435
EEX4536 and EEX4436
EEX4547 and EEX4347
EEX4548 and EEX4448
EEX4552 and EEX4542
EEX4562 and EEX4362
EEX5531 and EEX7231
EEX5533 and EEX5333
EEX5534 and EEX5434
EEX5535 and EEX5335
EEX5538 and EEX5338
EEX5543 and EEX6253
EEX5545 and EEX3266
EEX5545 and EEX4366
EEX5547 and EEY4181
EEX5832 and EEX5352
EEX5567 and EEX5467
EEX6351 and EEX5351
EEX6534 and EEX7434
EEX6535 and EEX6335
EEX6536 and EEX7436
EEX6539 and EEX6339
EEX6540 and EEX7340
EEX6541 and EEX6441
EEX6542 and EEX7342
EEX6550 and EEX6450
EEX6543 and EEX7333
EEX6832 and EEX7432
EEY6D95 and EEY7881
EEY6D95 and EEY7882
EEY6D95 and EEY7883
EEY6A96 and EEY7881
EEY6A96 and EEY7882
EEY6A96 and EEY7883
EEW3001and EEW4301
EEW3001 and EEW4403
EEW4001 and EEW5501
EEW4002 and EEW4502
EEW4003 and EEW5403
EEW5001 and EEW5501
EEW5003 and EEW5403
EEW5002 and EEW6502
EEX4332 and EEX4552
EEX4332 and EEX4548
EEX3530 and DMX3572
EEX3532 and EEX4548
EEX3350 and EEX3530
EEX3350 and DMX3572
EEX4547 and EEX4537
EEX4548 and EEX4538
EEX4552 and EEX3532
EEX5543 and EEX5539
EEX5547 and EEX5537
EEX5545 and EEX5540
EEX6351 and EEX6830
EEX6550 and EEX6830
EEX6543 and EEX6833
DMX6573 and EEX6542

Courses offered by the Department of Mathematics and Philosophy in Engineering

MHZ3531 and MHZ3551
MHZ3332 and MHZ3551
MHZ3531 and MHZ3552
MHZ3332 and MHZ3552
LLJ3360 and LLJ3245
MHZ4530 and MHZ4553
MHJ4331 and MHJ4241
MHZ4256 and MHZ3551
MHZ4256 and MHZ3552
MHZ5340 and MHZ5355
MHZ5530 and MHZ5554
MHJ5531 and MHJ5343
MHJ5533 and MHJ5342

Courses offered by the Department of Mechanical Engineering

DMX3511 and DMX3305
DMX3511 and AGM3203
DMX3512 and DMX3401
DMX3533 and DMX3206
DMX3533 and DMX3203
DMX3534 and DMX4201
DMX3535 and DMX3401
DMX3572 and DMX3304
DMX3574 and DMX3304
DMK3370 and EEX3417
DMW3001 and DMX3107
DMX4342 and DMX5209
DMX4530 and DMX4212
DMX4532 and DMX4208
DMX4533 and DMX3203
DMX4533 and DMX5204
DMX4543 and DMX5403
DMX4571 and DMX4409
DMX4571 and DMX4410
DMX4572 and DMX4204
DMX4573 and DMX5316
DMX4575 and DMX4205
DMX4576 and DMX3302
DMX4576 and DMX4204
DMX4835 and DMX3302
DMX4835 and DMX4204
DMX4835 and DMX4205
DMX5531 and DMX4202
DMX5531 and DMX5205
DMX5532 and DMX5302
DMX5533 and DMX5201
DMX5570 and DMX5313
DMX5571 and DMX5314
DMX5572 and DMX3203
DMX5572 and DMX3206
DMX5577 and DMX4306
DMX5577 and DMX5307
DMM5836 and AGM4307
DMM5836 and CVM5401
DMM5836 and DMM6601
DMX6570 and DMX7304
DMX6571 and DMX7303
DMX6573 and DMX5315
DMX6573 and DMX6306
DMX6573 and DMX7306
DMX6531 and DMX5208
DMX6532 and DMX5210
DMX6534 and DMX5212
DMX6535 and DMX7301
DMX6536 and DMX7305
DMX6540 and DMX6301
DMX6578 and DMX4203
DMX6578 and DMX5206
DMY6A98 and DMY7880
DMY6D95 and DMY7880
DMY6A96 and DMY7880
DMY6D73 and DMY7881
DMY6A74 and DMY7881
DMW4002 and DMW4801
DMW5002 and DMW6801
DMW4003 and DMW4802
DMW5003 and DMW6802
DMX6578 and DMX4203
EEX3530 and DMX3304
EEX3351 and DMX3304
EEX7342 and DMX5315
EEX7342 and DMX6306
EEX7342 and DMX7306

Courses offered by the Department of Textile and Apparel Technology

TAX3531 and TAX3458
TAX3532 and TAX3459
TAX3539 and TAX3331
TAI3536 and TAX5648
TAI3541 and TAX4438
TAX4533 and TAX4539
TAX4534 and TAX4571
TAX4538 and TAX4540
TAM4539 and TAM3234
TAM4539 and TAM3535
TAX5532 and TAX7464
TAX5534 and TAX5547
TAX4532 and TAX 5551
TAX5560 and TAX4462
TAX5562 and TAX4361
TAX6533 and TAX6454
TAM6335 and TAX6263
TAX6539 and TAX6556
TAX6560 and TAX7369
TAX6560 and TAX6265
TAX6561 and TAX6366
TAX6362 and TAX6367
TAX6368 and DMX6303
TAX6563 and TAX7368
TAX6564 and TAX5349
TAY6D95 and TAY7880
TAY6A96 and TAY7880
TAY6397 and TAY7880
TAY6A98 and TAY7880
TAW4001 and TAW4401
TAW5003 and TAW5403
TAW5004 and TAW5404
TAW5005 and TAW5405
TAW5006 and TAW5406
TAJ5342 and TAJ5353

Exemptions applicable for BTechHons(Eng) Study Programme

Qualifications in English Language

Qualification	Course exempted
G C E (A/L) – Simple pass in General English, or any recognised qualification in Science or Technology/Engineering, at the level of Diploma or Degree, the medium of instruction being English (verification needed)	VTL2001

Qualifications in Mathematics

Qualification	Courses		
	Level 3	Level 4	Level 5
BSc. With Mathematics at the final year BSc with Applied Mathematics and Pure Mathematics at the final year	MHZ3551 MHZ3552		
BSc Special Degree in Mathematics	MHZ3551 MHZ3552	MHZ4553	MHZ5554

Qualifications in Civil engineering and related disciplines

Qualification	Courses and Industrial Training modules		
	Level 3	Level 4	Level 5
NCT (Civil)	CVX3530		
NCIT (Civil)	CVX3530 DMW3001 CVX3531		
NAB (Civil)	EEX3510 DMX3512 DMX3511 DMW3001		
Diploma in Civil Engineering, GITI	CVX3530 CVX3533 CVX3534		
HNDE (Civil)	EEX3510 CVX3533 DMX3511 CVX3534 DMX3512 MHZ3531 CVX3530 MHZ3332 CVX3531 DMW3001 CVX3534 VRX3200	CVW4002	

Qualification	Courses and Industrial Training modules		
	Level 3	Level 4	Level 5
NDET (Civil)	EEX3510 CVX3533 DMX3511 CVX3534 DMX3512 MHZ3531 CVX3530 MHZ3332 CVX3531 DMW3001 CVX3534	CVW4002	
NDT (Civil) or NDES (Civil)	EEX3510 CVX3533 DMX3511 CVX3534 DMX3512 MHZ3531 CVX3530 MHZ3332 CVX3531 DMW3001 CVX3534 VRX3200	CVW4002	
BSc (Civil Eng.), General Sir John Kothalawala Defence Academy	EEX3510 CVX3534 DMX3511 CVX3533 DMX3512 CVX3534 CVX3530 DMW3001 CVX3531	CVX4530 CVX4531 CVX4532 CVX4534 CVX4536	CVX5530
BSc (Surveying Science), Institute of Surveying & Mapping, Diyatalawa	MHZ3531 EEX3510 MHZ3332 CVX3533		CVX5530
BSc. Surveying Sciences, Sabaragamuwa University Sri Lanka	MHZ3531 EEX3510 MHZ3332 CVX3533		CVX5530
Graduate Diploma, Engineering Council UK (Civil Engineering)	CVX3530		

Note: Those who have satisfied **only the academic requirements** without **industrial training components** in HNDE (civil), NDET (Civil), NDT (Civil) or NDES (civil) can be granted exemptions as listed, without **Industrial training** courses at Levels 3 & 4

Qualifications in Electrical/Electronic/Communications/ Computer Engineering/ IT and related disciplines – for interim curriculum students

Qualification	Courses and Industrial Training modules		
	Level 3 (and 4)	Level 4	Level 5
NCT (Electrical and Electronics)	EEX3510		
NCIT (Electrical and Electronics)	EEX3510 EEX3532 EEX3531 EEX3533 DMW3001 [(EEX3350 & EEX4350) or DMX3572]		
NAB Special Apprentice (AIT) –Electrical/Electronic	EEX3510 EEW3001 DMW3001 (EEX3350 & EEX4350) or DMX3572		
Diploma in Electronics and Communications, Jaffna College Institute of Technology	DMX3511 EEX3532 EEX3510 EEX3533 ECX3231 (EEX3350 & EEX4350) or DMX3572		
Diploma in Computer System Design, (NIBM)	EEX3533	EEX4535 EEX4547 EEX4562	
Advanced Technician Diploma in Electrical and Electronic Engineering (Level 5 IVQ)	EEX3510		
Higher Diploma in Computer based Information Systems (NIBM)			EEX5545 EEX5547 EEX5567
Higher National Diploma in IT, Advanced Technological Institute	EEX3533	EEX4535 EEX4547	
NDT (Electrical) or NDES (Power) or HNDE (Electrical Power)	EEX3510 EEX3531 DMX3511 MHZ3531 DMX3512 MHZ3332	EEW4002	

Qualification	Courses and Industrial Training modules		
	Level 3 (and 4)	Level 4	Level 5
	DMX3535 DMW3001 DMX3374 VTX3500		
	(EEX3350 & EEX4350) or DMX3572 EEX3532 or (EEX4552 & EEX4548) EEW3001 or DMW4003		
HNDE (Electrical Power) New curriculum from 2014	EEX3510 EEX3531 EEX3533 DMX3511 MHZ3531 DMX3512 MHZ3332 DMX3535 DMW3001 DMX3374 VRX3200 (EEX3350 & EEX4350) or DMX3572 EEX3532 or (EEX4552 & EEX4548) EEW3001 or DMW4003	EEW4002	
National Diploma in Technology (NDT) – Electronics and Telecommunications with DEE206 Electrical Installations & Wiring Diagrams		EEX4534	
NDES* (Power) (New curriculum) NDT** (Electrical) (New curriculum)	EEX3510 EEX3531 DMX3511 EEX3533 DMX3512 MHZ3531 DMX3535 MHZ3332 DMX3374 DMW3001 (EEX3350 & EEX4350) or DMX3572 EEX3532 or (EEX4552 & EEX4548) EEW3001 or DMW4003	EEX4534 EEX4536 EEW4002	
NDT (Electronic & telecom.) or NDES (Electronics) or NDES (Telecommunication)	EEX3510 EEX3532 DMX3511 EEX3533 DMX3512 MHZ3531 DMX3374 MHZ3332 EEX3531 DMW3001 DMX3535 (EEX3350 & EEX4350) or DMX3572 EEW3001 or DMW4003	EEX4533 EEX4536 EEW4003	
NDES* (Electronics) or NDES *(Telecommunication) (New curriculum)	EEX3510 EEX3532 DMX3511 EEX3533 DMX3512 MHZ3531 DMX3374 MHZ3332 EEX3531 DMW3001 (EEX3350 & EEX4350) or DMX3572 EEW3001 or DMW4003	EEX4530 EEX4533 EEX4536 EEW4003 VTX4500	
HNDE (Electronics) – Before 2014	EEX3510 MHZ3332 DMX3511 DMW3001 DMX3512 EEX3531 EEX3533 VTX3500 MHZ3531 (EEX3350 & EEX4350) or DMX3572 EEW3001 or DMW4003	EEX4533 EEW4003 VTX4500	
HNDE (Electronics) New curriculum from 2014	EEX3510 DMW3001 DMX3511 EEX3531 DMX3512 VRX3200 MHZ3531 EEX3532 MHZ3332 EEX3533 (EEX3350 & EEX4350) or DMX3572 EEW3001or DMW4003	EEX4533 EEW4003 VTX4500	
National Diploma in Engineering Technology (NDET)-Electrical/Electronic	EEX3510 EEX3533 DMX3511 DMW3001 VTX3500 DMX3512 MHZ3531 (EEX3350 & EEX4350) or DMX3572		
BIT (University of Colombo)		EEX4535 EEX4547	

*Effective year 2003 onwards **Effective year 2008 onwards

Note: Those who have satisfied **only the academic requirements** without industrial training components in NDT (Electrical), NDT (Electronic & telecom.), HNDE (Electrical Power) and HNDE (Electronics) can be granted exemptions as listed, but without relevant **Industrial training** courses at Levels 3 and 4

Qualifications in Mechanical/Automobile/Manufacturing Engineering and related disciplines

Qualification	Courses and Industrial Training modules exempted		
	Level 3	Level 4	Level 5
German Training School- Full Certificate **or** Full Certificate of Basic Training Programme conducted by the Training Schools of Central Transport Board (Werahara/Borella)	DMW3001		
National Certificate for Industrial Technicians (NCIT) (Mechanical)	DMX3511, DMX3512, DMX3533, DMX3534, DMW3001		
NDT (Mechanical)	DMX3511, DMX3512, EEX3510, DMX3533, DMX3534, DMX3535, DMX3574, MHZ3531 MHZ3332, DMW3001	(DMX4575, DMX4576 or DMX4835), DMX4530, DMX4532, DMW4002 or DMW4003	DMW5002
NDT (Chemical)	DMX3511, DMX3512, EEX3510, DMX3533, DMX3534, DMX3535, DMX3574, MHZ3531 MHZ3332, DMW3001	(DMX4575, DMX4576 or DMX4835)	
NDT (Marine)	DMX3511, DMX3512, EEX3510, DMX3533, DMX3534, DMX3535, DMX3574, MHZ3531 MHZ3332, DMW3001	(DMX4575, DMX4576 or DMX4835)	
NDT (Nautical studies & technology)	DMX3511, DMX3512, EEX3510, DMW3001	(DMX4575, DMX4576 or DMX4835),	
NDES (Mechanical - General)	DMX3511, DMX3512, EEX3510, DMX3533, DMX3534, DMX3535, DMX3574, MHZ3531 MHZ3332, DMW3001	(DMX4575, DMX4576 or DMX4835), DMX4530, DMW4002 or DMW4003	DMW5002
HNDE (Mechanical)-Production Engineering	DMX3511, DMX3512, EEX3510, DMX3533, DMX3534, DMX3535, DMX3574, MHZ3531 MHZ3332, DMW3001	(DMX4575, DMX4576 or DMX4835), DMX4530, DMW4002 or DMW4003	DMW5002
HNDE (Mechanical)-Automobile Engineering	DMX3511, DMX3512, EEX3510, DMX3533, DMX3534, DMX3535, DMX3574, MHZ3531 MHZ3332, DMW3001	(DMX4575, DMX4576 or DMX4835), DMX4532, DMW4002 or DMW4003	DMW5002
HNDE (Mechanical)-Refrigeration and Air conditioning	DMX3511, DMX3512, EEX3510, DMX3533, DMX3534, DMX3535, DMX3574, MHZ3531 MHZ3332, DMW3001	(DMX4575, DMX4576 or DMX4835), DMW4002 or DMW4003	DMW5002
NDES (Automobile)	DMX3511, DMX3512, EEX3510, DMX3533, DMX3534, DMX3535, DMX3574, MHZ3531 MHZ3332, DMW3001	(DMX4575, DMX4576 or DMX4835), DMX4532, DMW4002 or DMW4003	DMW5002
NDES (Marine)	DMX3511, DMX3512, EEX3510, DMX3533, DMX3534, DMX3535, DMX3574, MHZ3531 MHZ3332, DMW3001	(DMX4575, DMX4576 or DMX4835)	
BSc (Defence studies) in Aeronautical Engineering	EEX3510, DMX3511, DMX3512, EEX3530 or DMX3572, MHZ3531 MHZ3332, DMW3001		

Note: Those who have satisfied **only the academic requirements** without industrial training components in NDT (Mechanical) and HNDE (Mechanical) could be granted exemptions as listed above, but without the relevant **Industrial training** modules at Levels 4 and 5

Qualifications in Textile and Clothing Engineering and related discipline

Qualification	Courses and Industrial Training modules exempted		
	Level 3 (and 4)	Level 4 (and 5)	Level 5 (and 6)
Certificate in Textile Technology (One year Fulltime), Textile Training & Services Centre, Ratmalana	TAX3531 TAX3532	TAX4532 TAX4560 VTM4300	
Certificate in Textile Technology (One year Fulltime) and Diploma in Technology (Extension Course), Textile Training & Services Centre, Ratmalana	TAX3531 TAX3532 TAX3539	TAX4532 VTM4300 TAX4560	
Certificate in Textile Dyeing and Printing (Part time) from the Textile Training and Services Centre, Ratmalana		TAX4532	
Diploma in Textile and Apparel Technology (Part time), Sri Lanka Institute of Textile and Apparel (SLITA), Rathmalana		TAX4532	
Diploma in Textile and Apparel Technology (Full time) , Sri Lanka Institute of Textile and Apparel (SLITA), Ratmalana	TAX3531 TAX3539 TAX3532 TAI3541 TAI3536	TAX4532 TAX4533 TAX4538	TAX5560
Diploma in Textile Technology from the Textile Training and Services Centre, Ratmalana	TAX3531 TAX3532 TAX3539	TAX4532 VTM4300 TAX4560	
Diploma in Clothing Technology from the Clothing Industry Training Institute, Ratmalana	TAX3539 TAI3541	TAX4533 TAW4001 VTM4300	TAX5560
Certificate in Textile Colouration and Finishing (Part time) and Diploma in Textile Colouration and Finishing (Part time) from the Textile Training and Services Centre, Ratmalana	TAX3531 VTM4300	TAX4532	TAX6362
Certificate in Garment Production Management (Part time) from Clothing Industry Training Institute, Ratmalana	TAX3539		
College Diploma in Clothing Technology and Management (Fulltime), Brandix College of Clothing Technology, Ratmalana	TAI3536 TAX3539 TAI3541	TAX4533 TAW4001 TAX4538	TAX5560
NDT (Textile) (Old Curriculum-till 2007)	DMX3511 MHZ3531 DMX3535 MHZ3332 DMX3374 TAX3531 EEX3510 TAX3532 (TAI3536 or TAX3539), DMW3001	TAX4532 TAX4533 TAX4560	Any two of TAW5003, TAW5004, TAW5005, TAW5006
NDT (Textile) (Old Curriculum-till 2007) without completion of training	DMX3511 MHZ3531 DMX3535 MHZ3332 DMX3374 TAX3531 EEX3510 TAX3532 (TAI3536 or TAX3539)	TAX4532 TAX4533 TAX4560	
NDT (Clothing) (Old Curriculum-till 2007)	DMX3511 TAX3531 DMX3535 TAX3532 DMX3374 TAI3541 EEX3510 DMW3001 MHZ3531 MHZ3332 (TAI3536 or TAX3539)	TAX4532 Any two of TAX4533 TAW4001 TAX4538 TW5003 TAW5004 TAW5005 TAW5006	TAX5560
NDT (Clothing) (Old Curriculum-till 2007) without completion of training	DMX3511 MHZ3531 DMX3535 MHZ3332 DMX3374 TAX3531 EEX3510 TAI3541 (TAI3536 or TAX3539)	TAX4532 TAX4533 TAX4538	TAX5560

Qualifications in Textile and Clothing Engineering and related discipline (cont)

Qualification	Courses and Industrial Training modules exempted		
	Level 3 (and 4)	Level 3 (and 4)	Level 3 (and 4)
NDT (Textile and Clothing Technology) – New Curriculum (after 2007)	DMX3511 DMX3535 EEX3510 MHZ3531 MHZ3332 TAX3531 TAX3532 TAI3536 TAX3539 TAI3541 DMW3001	TAX4532 TAX4533 TAX4538 TAX4560 DMX4576 Any two of TAW4001 TAW5003 TAW5004 TAW5005 TAW5006	TAX5560,
NDT (Textile and Clothing Technology) – New Curriculum (after 2007) without completion of training	DMX3511 DMX3535 EEX3510 MHZ3531 MHZ3332 TAX3531 TAX3532 TAI3536 TAX3539 TAI3541	DMX4576 TAX4532 TAX4533 TAX4538 TAX4560	TAX5560
NDT (Polymer Technology)	DMX3511 DMX3535 DMX3533 DMX3534 DMX3374 EEX3510 MHZ3531 MHZ3332D MW3001	DMX4576	
Diploma in Clothing Manufacture – CITI, Ratmalana	TAX3539 TAI3541	TAX4533 TAW4001 VRM4100	TTW5001
Diploma in Polymer Technology – CITI, Ratmalana		TAX4533 VTM4300	
TAM4539 –Management studies and TAM5540 -Apparel Merchandising, OUSL			TAM5861
TAI3540- Pattern construction and TAI5538 – Advanced pattern construction, OUSL			TAX5560

Licentiateship of Textile Institute (LTI) Examination /Associate ship of Textile Institutes (ATI) Technology Group Examination

Subject	Level 3	Level 4	Level 5
Paper 2 in LTI/Paper 2(a) in ATI – Fibre Technology and Textile Science	TAX3531		
Paper 3 in LTI /Paper 2 (b) in ATI – Yarn Technology and Yarn preparation	TAX3532		
Paper 4 in LTI /Paper 2 (c) in ATI- Fabric technology	TAI3536	TAX4560	
Paper 5 in LTI /Paper 2 (d) in ATI-Dyeing and Finishing Technology		TAX4532	
Paper 6 in LTI – Textile Testing		TAX4533	
Paper 8 in LTI /Paper 2 (f) in ATI- Management Studies		VTM4500	
Paper 10 in LTI- Merchandising of Textile Consumer Products		VTM4300	
Paper 11 in LTI – Garment Technology	TAX3539		

Note: Those who have satisfied **only the academic requirements** without industrial training components in NDT (Textile and Clothing Technology) – New Curriculum, NDT (Textile) (Old Curriculum), and NDT(Clothing), (Old Curriculum) can be granted exemptions as listed, but without relevant **Industrial training** courses at Levels 3, 4 and 5

Other Qualifications

Abbreviations

Abbreviation	Description	Abbreviation	Description
GCE (O/L)	General Certificate in Education (Ordinary Level)	NDET	National Diploma in Engineering Technology
GCE (A/L)	General Certificate in Education (Advanced Level)	BIT	Bachelor of Information Technology
NDT	National Diploma in Technology	GITI	Galgamuwa Irrigation Training Institute
NDES	National Diploma in Engineering Science	NIBM	National Institute of Business Management
NDA	National Diploma in Agriculture	IESL	Institution of Engineers Sri Lanka
HNDA	Higher National Diploma in Agriculture	EC	Engineering Council, UK
NCT	National Certificate in Technology	CEI	Council of Engineering Institutions, UK
NCIT	National Certificate for Industrial Technicians	SLITA	Sri Lanka Institute of Textile and Apparel
NAB	National Apprenticeship Board	CITI	Clothing Industry Training Institute
HNDE	Higher National Diploma in Engineering		

Bachelor of Industrial Studies Honours Degree Study Programme

3.2 Bachelor of Industrial Studies Honours Study Programme

The Bachelor of Industrial Studies Honours Degree Programme of the OUSL is carefully designed in accordance to the requirements of the Sri Lanka Framework (SLQF) especially for persons presently employed in middle level management /technical grades in various industries.

It is also possible for a student to obtain a Higher Diploma in an approved Industrial Studies discipline after successful completion of a required combination of courses and credit requirements.

Areas of Specialisations

- Agriculture
- Apparel production and management
- Fashion design and product development
- Textile manufacture

Duration

The minimum duration of the Degree Programme starting from level 3 is 4 years and the maximum number of years a student can spend to complete the degree Programme is twelve (12) years.

Medium of Instruction

The medium of instruction is English.

Eligibility for Admission to the Programme of Study

A person seeking admission to the Programme leading to the award of the Degree of Bachelor of Industrial Studies Honours in the specialisations in Apparel Production and Management, or Textile Manufacture or Fashion Design and Product Development shall be required to have,

• Obtained three passes in any stream, at the General Certificate of Education (Advanced Level) Examination, Sri Lanka, in one and the same sitting or,

• Obtained a minimum three (3) credit (C) passes in any 3 subjects in Cambridge International/Edexcel Advanced Level Examination within three years or,

• Completed the Certificate in Industrial Studies in Apparel technology offered by the Open University of Sri Lanka or,

• Completed the Advanced Certificate in Industrial Studies in Apparel Technology offered by the Open University of Sri Lanka or,

• Obtained the Advanced Certificate in Apparel Technology offered by the Open University of Sri Lanka or

• Completed all courses of any foundation Programme offered by The Open University of Sri Lanka or,

• Obtained the Advanced Certificate in Science with courses from any three (3) disciplines offered by the Open University of Sri Lanka or,

• Secured an equivalent or higher qualification acceptable to the Senate.

A person seeking admission to the Programme leading to the award of the Degree of Bachelor of Industrial Studies Honours in the specialisation in Agriculture shall be required to have,

• Obtained three (03) passes from Biology, Chemistry, Physics or Agriculture at the General Certificate in Education (Advanced Level) Examination, Sri Lanka in one and same sitting, or

• Obtained a minimum three (3) credit (C) passes for Biology, Physics and Chemistry in Cambridge International/Edexcel Advanced Level Examination within three years or,

• Obtained the Advanced Certificate in Science with courses in the disciplines of Biology, Physics and Chemistry offered by the Open University of Sri Lanka or,

• Obtained an equivalent or higher qualification acceptable to the Senate.

In order for a student to qualify for the award of the Degree of Bachelor of Industrial Studies Honours, the student has to meet the following requirements.

(1) Successful completion of all compulsory courses for the selected specialisation

(2) Fulfil the level-wise and category-wise course credits as given in Table 3(a) (in the academic year 2021/22) or Table 3(b) (from the academic year 2022/23)

Requirements for the Award of the Higher Diploma

In order for a student to qualify for the award of the Higher Diploma in Industrial Studies, he/she has to meet the following requirements within a maximum of 12 academic years.

(1) Obtain passes for all compulsory courses of levels 3 and 4 for the specialisation, including the Industrial Training and

(2) Fulfil Level-wise and Category-wise Credit requirements for the Higher Diploma as given Table 4(a) (in the academic year 2021/22) or Table 4(b) (from the academic year 2022/23)

Grade Point Average (GPA)

The GPA is computed by considering the courses at levels 4, 5 and 6 totalling to 60 credits (for IC) or 74 credits (for RC). In selecting the courses for the computation of GPA, the following sequence will be followed.

(1) Compulsory courses at levels 5 and above

(2) Non-compulsory courses at levels 5, and above

(3) Compulsory courses at level 4

The Grade Point Average (GPA) is computed using (a) for Interim Curriculum or (b) for Revised Curriculum.

The Grade Point Average (GPA) is computed as Follows:

(a)

$$GPA = \frac{\{\sum \quad (Credit\ Rating\ of\ the\ Course) * (GPV) + (Part\ Credit\ of\ the\ Course) * (GPV)\}}{60}$$

(b)

$$GPA = \frac{\{\sum \quad (Credit\ Rating\ of\ the\ Course) * (GPV) + (Part\ Credit\ of\ the\ Course) * (GPV)\}}{74}$$

Table 3 (a) – Category-wise and level-wise minimum credits requirements for the Award of Bachelor of Industrial Studies Honours Degree until the academic year 2021/22 (Applicable for Interim Curriculum)

Category	Minimum credits	Maximum credits
Industrial (I)	75 subject to a minimum of 30 at levels 5 and 6	89 subject to a minimum of 30 at levels 5 and 6
Engineering (X)		
Management (M)	8	22
General (J)	8	22
Mathematics (Z)	10	24
Project (Y)	10 subject to a minimum of 10 at level 6	24 subject to a minimum of 10 at level 6
English (L or E)	0	5
Computer literacy (K)	0	5
Total	125 subject to a minimum of 60 at levels 5 and 6, of which at least 30 at level 6.	

Table 3(b) – Category-wise and level-wise minimum credits requirements for the Award of Bachelor of Industrial Studies Honours Degree from the academic year 2022/23 (Applicable for Revised Curriculum)

Category	Minimum Credits	Maximum Credits
Engineering (X)	74 Subject to a minimum of 30 at Level 5 and above of which at least 12 at level 6	88 Subject to a minimum of 30 at Level 5 and above of which at least 12 at level 6
Industrial (I)		
Projects (Y)	8 Minimum of 8 credits at level 6	11 Minimum of 8 credits at level 6
Mathematics (Z)	8	10
General (J)	5	6
Management (M)	10	15
Industrial Training (W)	8	8
Computer literacy (K)	2	2
Total	130 Subject to a minimum of 60 at Level 5 or above, of which at least 30 at Level 6	

Table 4 (a) – Category-wise and level-wise minimum credits requirements for the Award of the Higher Diploma in Industrial Studies in an approved discipline until the academic year 2021/22 (Applicable for Interim Curriculum)

Category	Minimum Credits	Maximum Credits
Industrial (I)	45 at level 3 or above, of which at least 15 at level 4 or above	60 at level 3 or above, of which at least 15 at level 4 or above
Engineering (X)		
Management (M)	0	15
General (J)	0	15
Mathematics (Z)	5	15
Project (Y)	0	15
English (L or E)	0	5
Computer literacy (K)	0	5
Total	65 of which at least 30 credits at level 4 or above	

Table 4 (b) – Category-wise and level-wise minimum credits requirements for the Award of the Higher Diploma in Industrial Studies in an approved discipline from the academic year 2022/23 (Applicable for Revised Curriculum)

Category	Minimum Credits	Maximum Credits
Engineering (X) Industrial (I)	42 Subject to a minimum of 15 at Level 4 and above	46 Subject to a minimum of 15 at Level 4 and above
Mathematics (Z)	5	9
General (J)	0	4
Management (M)	7	11
Industrial Training (W)	8	8
Computer literacy (K)	2	2
Total	68 Subject to a minimum of 30 at Level 4	

Limits for Exemptions

Notwithstanding any exemptions granted for prior qualifications, a student shall acquire, by successful completion in accordance with the Scheme of Assessment, a minimum number of credits as shown below for the awards.

Table 5 – Minimum number of credits to be obtained by following courses despite exemptions

Credit Description	Interim Curriculum	Revised Curriculum
For Degree		
Level 6 (considering all Categories)	15	15
Level 6 (considering X, I and Y categories)	05	10
Levels 5 and 6 (considering all Categories)	30	30
Levels 5 and 6 (considering X, I and Y Categories)	20	19
Total (considering all Categories and all levels from 3 to 6)	63	65

Table 5 (cont...)

Credit Description	Interim Curriculum	Revised Curriculum
For Higher Diploma		
Level 4 (considering all Categories)	15	15
Level 4 and above (considering X and I Categories)	08	08
Total (considering all Categories and all levels from 3 to 6)	33	34

A list of qualifications for which exemptions could be claimed is given in Page 64.

Curricula for Different Specialisations

The following pages give the courses for different specialisations for meeting the award requirements under IC with the incorporation of courses of the RC.

Important Notes

(a) Maximum number of credits per academic year and General pre-requisites

Maximum number of credits a student can register at the Open University of Sri Lanka per academic year 38.

Also note that in addition to the pre-requisites mentioned in the curricula the following pre-requisite (Level Pre-requisites) have to be fulfilled for registering courses.

For Courses at level 3: FDE3020 (CR), (CR) LTE3401 (CR) or VTL1501 or VTL2001
For Courses at level 4: {EDE3001(EL) or FDE3020 (CA)}, {LSE3204 (EL) or LTE3401 (CA) or VTL1501 or VTL2001}
For Courses at level 5 and above: FDE3020 (P), LTE3401 (P) or VTL1501 or VTL2001

(b) General (J) and Management (M) category courses

The courses listed under specialisations may not include General (J) and Management (M) category courses unless such courses are compulsory. These have to be selected from the Table below to meet the minimum credit requirements in those course categories.

All the courses of IC have now been discontinued. Therefore, the student needs to register for the alternative courses given in the second column of the Table below.

Course (IC)	Alternative Course (RC)	Prerequisite
LLJ3360 Introduction to laws of Sri Lanka	LLJ3245 Introduction to laws of Sri Lanka	none

None	MHJ4241 History of Technology*	Pass in 20 credits
MHJ5531 The nature of science	MHJ5343 Nature of Science	Pass in 45 credits
MHJ5533 Technology, society, and environment	MHJ5342 Technology, Society and Environment	Pass in 45 credits

*New Course

(c) Non-compulsory (Elective) Courses

The students enrolled until the academic year 2017/18 had the provision to register for courses from the "Complete List of Courses" of the Faculty to fulfil the "slack" of a given specialisation. In the RC, recommended elective courses are provided from which the student has to choose courses for the "slack".

The students who have already completed courses (CA or P) outside the list of recommended courses can count the credits for such courses despite they receive the awards under IC or RC. Now the students are allowed to register only for the courses selected from the recommended elective courses. However, those courses that have been already completed may be considered towards the credit requirements.

(d) Industrial Training Modules

Students can register for Industrial Training Modules of the IC in the academic year 2021/22. Equivalent Industrial Training Courses of the RC will be available from the academic year 2022/23.

(e) Fulfilment of Course Category Credits and Compulsory Courses under RC

The students who aspire to receive awards under the RC need to register for the following courses, except under the conditions mentioned in the remarks column of the following Table, to meet course category credit requirements and compulsory course requirements for awards under RC.

Course (RC)	Prerequisites	Remarks
TAK3237 Introduction to Computer Applications	None	None

Curriculum for Agriculture Specialisation

All the courses of the IC have been discontinued. If a student needs a course to fulfil the award requirements under IC, such student is required to register for the alternative course/s of the RC given in the second column.

Level 3 Compulsory Courses

Course (IC)	Alternative Course (RC)	Prerequisite
AGI3534 Agricultural Biology I	AGI3551 Agricultural Biology	None
AGI3535 Land and Soil Tillage Management	AGI3450 Land and soil Tillage Management	None
AGI3536 Postharvest biology and Technology I	AGI4561 Postharvest Biology and Technology	AGI3551 (CR) or AGI3534 (CA) or AEI3234 (EL)
ADU3318 Statistics for Agriculture I	MHZ4357 Applied Statistics	MHZ3458(CA) OR AGZ3538(CA), 15 Credits(P) in level 3
AGZ3538 Mathematics for Agriculture	MHZ3458 Mathematics for Agriculture	None

Level 4 Compulsory Courses

Course (IC)	Alternative Course (RC)	Prerequisite
AGX4539 Crop Production and Farming System	AGI3552 Crop Production and Technology	None

Course (IC)	Alternative Course (RC)	Prerequisite
AGJ4533 Rural Sociology	AGJ6281 Rural Sociology	Pass in 68 credits
AGX4530 Integrated Crop Protection	AGI3553 Plant Protection	AGI3552 (CR) or AGX4539 (CA) or AEX4239 (EL)
AGX4540 Plant and Soil Science	AGX4356 Soil Science	None
ADU4319 Statistics for Agriculture II	AGZ5367 Experimental Design	MHZ4357 (CR) or ADU3318 (CA) or PCU1142 (EL)

Level 4 Elective Courses

Course (IC)	Alternative Course (RC)	Prerequisite
AGX4531 Food and Nutrition	AGI4559 Food and Nutrition	AGI3553(CR) or AGX4530(CA) or AEX4230 (EL)
AGX4532 Soil and Water Conservation	AGX6490 Soil and Water Conservation	AGX4356(CR) or AGX4540 (CA) or AEX4240 (EL)
AGI4538 Agricultural Biology II	AGI5471 Animal Biology	None
AGX4537 Irrigation and Drainage Engineering	AGI4555 Irrigation and Drainage Engineering	AGX6490(CR) or AGX4532(CA) or AEX4232 (EL)
AGM4534 Agricultural Economics and Management	AGM3354 Principals of Economics	None
AGM4535 Agricultural Marketing	AGM4363 Agricultural Marketing	None

Levels 5 and 6 Compulsory Courses

Course (IC)	Alternative Course (RC)	Prerequisite
AGX5543 Farm Power and Machinery	AGI5364 Farm Power and Machinery	AGI3535 (P) or AGX3531 (P)
AGI5544 Postharvest biology and Technology II	AGI5544 Postharvest biology and Technology II	AGI3536 (CA) or AEI3236 (EL)
AGX5532 Soil Plant and Water Relationship	AGX5565 Soil Plant and Water Relationship	AGX4540 (P)
AGJ5540 Indigenous Knowledge of Herbal Products	AGJ5368 Indigenous Knowledge of Herbal Products	Pass in 15 credits at level 3 and further 15 credits eligibility at level 4 or above
AGM5546 Agricultural Extension	AGM6379 Agricultural Extension	Pass in 36 credits at level 3 or above
AGX6534 Environmental Control in Farm Structures	AGX6534 Environmental Control in Farm Structures	AGX4539 (P), AGI3534 (P)
AGX6535 Hydrology and water Resources	AGI6478 Hydrology and Water Resources	AGX4540 (P), ADU3318 (P) or CVX3532 (P)
AGY6D96 Individual Project (Agriculture)	AGY6880 Individual Project (Agriculture)	Pass in 15credits at level 5 and 15credits at level 5 or above, ADU3318(CA or PCU1142 (EL) ,ADU4319(CA) or PCU2142 (EL)

Level 5 and 6 Elective Courses

Course (IC)	Alternative Course (RC)	Prerequisite
One from:		
AGI5530 Fisheries and Aquaculture	AGI5572 Fisheries and Aquaculture	AGI4538 (CA) or AEI4238 (CA)
AGI5541 Agricultural Biotechnology	AGI5569 Molecular Biology and Biotechnology	AGI3534 (P)
Two or three from: to fulfil 12 credits		
AGI6238 Fruit Crops and Cut Flower Production	AGI5274 Fruit Crops and Cut Flower Production	AGX4539 (P), AGI3534 (P)
AGX6536 Food Processing	AGI6582 Food Processing	
AGI6232 Ground water Resources Management	AGX6283 Ground Water Resources Management	AGX6535 (CR) or AEX6235 (EL)
AGI6237 Impact of Climate Change on Water Resources	AGX6284 Impact of Climate Change on Water Resources	AGX6535(CR) or AEX6235 (EL)
AGI6539 Animal husbandry and Production	AGI4460 Animal Husbandry and Production	AGI4538(CA) or AEI4238 (EL)
AGI6550 Advanced Biotechnology	AGI6585 Applications in Biotechnology	AGI5541(EL) or AEI5241 (EL)

Industrial Training Modules

Module (IC)	Alternative Course (RC) to offer in 2022/23	Prerequisite
AGW4002 Industrial Training I (Agriculture)	AGW4401 Specific Training I	AGX4539(P), AGI3551(CR) or AEI3234(EL), pass in 15 credits in level 3 or above
AGW5002 Industrial Training II (Agriculture)	AGW5401 Specific Training II	AGW4002 (CR)or AEW4002 (EL), pass in 15 credits at level 4 or above

Curriculum for Apparel Production & Management Specialisation

All the courses of the IC have been discontinued. If a student needs a course to fulfil the award requirements under IC, such student is required to register for the alternative course/s of the RC given in the second column.

Compulsory Courses

Course (IC)	Alternative Course (RC)	Prerequisite
Level 3		
TAX3537 Fibre to Fabrics	TAX3530 Fibre to Fabrics	None
TAI3538 Garment Accessories	TAI3332 Garment Accessories	None
TAX3539 Garment Analysis and Sewing Machinery	TAX3331 Garment Analysis and Sewing Machinery	None
TAI3540 Pattern Construction	TAI3533 Pattern Construction	None
TAI3541 Production Planning and Organisation	TAX4438 Production Planning and Organisation	15 Credits (P)
Level 4		
TAX4533 Quality Assurance for Textiles and Clothing	TAX4539 Quality Assurance for Textile and Clothing	15 Credits (P)
TAX4538 Garment Manufacture	TAX4540 Garment Manufacture	TAX3539 (P) or TAX3331 (CA), 15 Credits (P)
TAM4539 Management Studies	TAM3234 Basics of Human Resource Management	None
	TAM3535 Management Studies	None
TAZ4541 Statistics for Industrial Studies	MHZ3576 Statistics for Industrial Studies	None
Level 5		
TAX5534 Plant Utilities	TAX5547 Plant Utilities	45 Credits (P)
TAI5339 Current Topics in Textile and Clothing	TAI5246 Current Topics in Textile and Clothing	45 Credits (P)
Level 6		
TAX6565 Fabric Technology	TAX6455 Fabric Technology	45 Credits (P) at Level 4 and above
TAX6539 Ergonomics	TAX6556 Ergonomics	45 Credits (P) at Level 4 and above
Select one from:		
TAY6D95 Individual Project- Type B (Textile & Apparel)	TAY6882 Research Project (Apparel Production)	TAI5246 (CA) or TAI5339 (P), 45 Credits (P) at level 4 and above
TAY6A96 Group Project (Textile & Apparel)	TAY6882 Research Project (Apparel Production)	TAI5246 (CA) or TAI5339 (P), 45 Credits (P) at level 4 and above
(a) TAY6397 Project Identification &Literature survey (Textile & Apparel) and (b) TAY6A98 Individual Project - Type A	TAY6882 Research Project (Apparel Production)	TAI5246 (CA) or TAI5339 (P), 45 Credits (P) at level 4 and above

Elective Courses

Course (IC)	Alternative Course (RC)	Prerequisite
TAI3536 Fabric Structure and Analysis	TAX5648 Fabric Structure and Analysis	45 Credits (P)
TAX4532 Textile Colouration	TAX5551 Textile Colouration	45 Credits (P)
TAX4542 Knitted Garment Technology	TAX4441 Knitted Garment Technology	15 Credits (P)

Course (IC)	Alternative Course (RC)	Prerequisite
TAX5532 Yarn and Fabric Mechanics	TAX7464 Yarn and fabric mechanics	MHZ3531(P) or MHZ3551(P), MHZ3332 (P) or MHZ3552 (P), TAX4560(P), 45 Credits (P) at level 4 and above
TAI5538 Advanced Pattern Construction	TAI4442 Advanced Pattern Construction	TAI3540(P) or TAI3533 (P), 15 Credits (P)
TAM5540 Apparel Merchandising	TAM4445 Apparel Merchandising	15 Credits (P)
TAJ5342 History and Traditions of Clothing	TAJ5353 History and Traditions of Clothing	45 Credits (P)
TAI5543 Principles of Fashion Design	TAI5552 Principles of Fashion Design	45 Credits (P)
TAZ5544 Quantitative Techniques	MHZ5570 Quantitative Techniques	TAZ4541 (P) or TAZ3536 (P) or MHZ3576 (P), 45 Credits (P)
TAI5345 Foundation Garments	TAI4243 Foundation Garments	TAX3530 (CA) or TAX3537 (P), TAI3533 (CA) or TAI3540 (P), TAX4540 (CR) or TAX4538 (P), 15 Credits (P)
TAI5346 Industrial Garment Washing and Finishing	TAI4344 Industrial Garment Washing and Finishing	15 Credits (P)
TAX5562 Knitting Technology	TAX4361 Knitting Technology	15 Credits (P)
TAX6533 Technical Textiles	TAX6454 Technical Textiles	45 Credits (P) at level 4 and above
TAX6335 Textile Product Engineering	TAX6263 Textile Product Engineering	45 Credits (P) at level 4 and above
TAX6362 Advanced Colouration	TAX6367 Advanced Colouration	TAX4532 (P) or TAX5551 (CA) or TAX4534(P) or TAX4571 (P), 45 Credits (P) at level 4 and above
TAX6563 Speciality Fabrics	TAX7368 Speciality Fabrics	TAX5562 (P) or TAX4361 (P), TAX4560 (P), 45 Credits (P) at level 4 and above
TAX6564 Nonwoven Textiles	TAX5349 Nonwoven Textiles	TAX3531 (P) or TAX3458 (P) or TAX3537 (P) or TAX3530 (P), 45 Credits (P)

Industrial Training Modules

Module (IC)	Alternative Course (RC) to offer in 2022/23	Prerequisite
TAW4001 Industrial Training (Apparel I)*	TAW4401 Specific Training I (Apparel)	TAI3535 (P) or [TAX3539(P) or TAX3331 (P), TAI3541(P) or TAX4438 (CR), 15 Credits (P)] or [TAX3539(P) or TAX3331 (CA), TAX4438 (CR), 18 Credits (P)]
TAW5001 Industrial Training (Apparel II)*	TAW5401 Specific Training II (Apparel)	TAW4401 (CR) or TAW4001 (CR), TAX4538(P) or TAX4540 (CA), 15 credits (CA) at level 4 and above

* *Will be offered in 2021/22 for students completing under IC*

Curriculum for Fashion Design and Product Development Specialisation

All the courses of the IC have been discontinued. If a student needs a course to fulfil the award requirements under IC, such student is required to register for the alternative course/s of the RC given in the second column.

Compulsory Courses

Course (IC)	Alternative Course (RC)	Prerequisite
Level 3		
TAX3537 Fibre to Fabrics	TAX3530 Fibre to Fabrics	None
TAI3538 Garment Accessories	TAI3332 Garment Accessories	None
TAX3539 Garment Analysis and Sewing Machinery	TAX3331 Garment Analysis and Sewing Machinery	None
TAI3540 Pattern Construction	TAI3533 Pattern Construction	None
TAI3342 Concept of Fashion	TAI4371 Concepts of Fashion	15 credits (P)
TAI3543 Concept of Fashion Design	TAI4472 Concepts of Fashion Design	15 Credits (P)
TAJ3346 Fashion Illustration I	TAI3270 Fashion Illustration I	None
Level 4		
TAX4538 Garment Manufacture	TAX4540 Garment Manufacture	TAX3539 (P) or TAX3331 (CA), 15 Credits (P)
TAI4545 Process of Fashion Design	TAI4474 Process of Fashion Designing	TAI3543 (P) or TAI4472(CR), 15 Credits (P)
TAJ4547 Fashion Illustration II	TAI4373 Fashion Illustration II	TAJ3346(P) or TAI3270 (CA) , 15 Credits (P)
Level 5		
TAI5538 Advanced Pattern Construction	TAI4442 Advanced Pattern Construction	TAI3540(P) or TAI3533 (P), 15 Credits (P)
TAI5348 Design Through Draping	TAI5375 Design Through Draping	TAI3540 (P) or TAI3533 (P), 45 Credits (P)
TAI5354 Computer Aided Pattern Drafting	TAI5376 Computer Aided Pattern Drafting	TAI3540 (P) or TAI3533 (P), 45 Credits (P)
TAI5359 Computer Aided Fashion Illustration	TAI5277 Computer Aided Fashion Illustration	TAI3543 (P) or TAI4472 (CA), TAJ4547 (P) or TAI4373 (CA), 45 Credits (P)
TAI5563 Fashion Design Development	TAI5478 Fashion Design Development	TAJ4547 (P) or TAI4373 (P), 45 Credits (P)
TAJ5342 History &Traditions of Clothing	TAJ5353 History & Traditions of Clothing	45 Credits (P)
Level 6		
TAY6390 Inspiration of Fashion Design	TAY5384 Inspiration of Fashion Design	TAI4545 (P) or TAI4474 (CA), TAJ4547(P) or TAI4373 (CA), 45 Credits (P)
TAY6A91 Creative Fashion Design	TAY6885 Creating and Exhibiting Fashion Products	TAY6390 (P) or TAY5384 (P), TAI6869 (CA) or TAI5579 (CA), 45 Credits (P) in level 4 and above
TAM6540 Fashion Marketing	TAM6457 Fashion Marketing	45 Credits (P) in level 4 and above
TAI6869 Visual Presentation and Exhibition Design	TAI5579 Theoretical Aspects of Visual Presentation and Exhibition Design	TAI5563(CA) or TAI5478 (CR), 45 Credits (P)
TAI6549 Fashion Show Production	TAI6580 Fashion Show Production	TAI4545 (P) or TAI4474 (P), 45 Credits (P) in level 4 and above

Elective Courses

Course (IC)	Alternative Course (RC)	Prerequisite
TAI3536 Fabric Structure and Analysis	TAX5648 Fabric Structure and Analysis	45 Credits (P)
TAI3541 Production Planning and Organisation	TAX4438 Production Planning and Organisation	15 Credits (P)
TAX4532 Textile Colouration	TAX5551 Textile Colouration	45 Credits (P)

Course (IC)	Alternative Course (RC)	Prerequisite
TAX4542 Knitted Garment Technology	TAX4441 Knitted Garment Technology	15 Credits (P)
TAX4533 Quality Assurance for Textiles and Clothing	TAX4539 Quality Assurance for Textile and Clothing	15 Credits (P)
TAZ4541 Statistics for Industrial Studies	MHZ3576 Statistics for Industrial Studies	None
TAM4539 Management Studies	TAM3234 Basics of Human Resource Management	None
	TAM3535 Management Studies	None
TAX5534 Plant Utilities	TAX5547 Plant Utilities	45 credits (P)
TAZ5544 Quantitative Techniques	MHZ5570 Quantitative Techniques	TAZ4541 (P) or TAZ3536 (P) or MHZ3576 (P), 45 Credits (P)
TAX6533 Technical Textiles	TAX6454 Technical Textiles	45 Credits (P) at level 4 and above
TAX6335 Textile Product Engineering	TAX6263 Textile Product Engineering	45 Credits (P) at level 4 and above
TAX6539 Ergonomics	TAX6556 Ergonomics	45 Credits (P) at level 4 and above
TAX6362 Advanced Colouration	TAX6367 Advanced Colouration	TAX4532 (P) or TAX5551 (CA) or TAX4534 (P) or TAX4571 (P), 45 Credits (P) at level 4 or above
TAX6564 Nonwoven Textiles	TAX5349 Nonwoven Textiles	TAX3531 (P) or TAX3458 (P) or TAX3537 (P) or TAX3530 (P), 45 Credits (P)
TAX6565 Fabric Technology	TAX6455 Fabric Technology	45 Credits (P)
TAI5345 Foundation Garments	TAI4243 Foundation Garments	TAX3530 (CA) or TAX3537 (P), TAI3533 (CA) or TAI3540 (P), TAX4540 (CR) or TAX4538 (P), 15 Credits (P)
TAI5346 Industrial Garment Washing and Finishing	TAI4344 Industrial Garment Washing and Finishing	15 Credits (P)
TAX5562 Knitting Technology	TAX4361 Knitting Technology	15 Credits (P)
TAM5540 Apparel Merchandising	TAM4445 Apparel Merchandising	15 Credits (P)

Industrial Training Modules

Module (IC)	Alternative Course (RC) to offer in 2022/23	Prerequisite
TAW4002 Industrial Training (Fashion I)*	TAW4402 Specific Training I (Fashion)	TAI3342 (P) or TAI4371 (CR), TAI3543 (P) or TAI4472 (CR), TAX3539(P) or TAX3331 (P), 15 Credits (P)
TAW5002 Industrial Training (Fashion Design and Product Development) *	TAW5402 Specific Training II (Fashion design and product development)	TAW4001 (CR) or TAW4002 (CR), TAX4538(P) or TAX4540 (CA), TAI4545(P) or TAI4474 (CA), 15 credits (P) at level 4 or above

* *Will be offered in 2021/22 for students completing under IC*

Curriculum for Textile Manufacture Specialisation

All the courses of the IC have been discontinued. If a student needs a course to fulfil the award requirements under IC, such student is required to register for the alternative course/s of the RC given in the second column.

Compulsory Courses

Course (IC)	Alternative Course (RC) to offer in 2020/21	Prerequisite
Level 3		
TAX3531 Fibre Science and Technology	TAX3458 Fibre Science and Technology	None
TAX3532 Yarn Manufacture I	TAX3459 Yarn Manufacture I	None
TAX3534 Textile Preparation	TAX3370 Textile Preparation	None
TAI3536 Fabric Structure and Analysis	TAX5648 Fabric Structure and Analysis	45 Credits (P)
TAX3539 Garment Analysis and Sewing Machinery	TAX3331 Garment Analysis and Sewing Machinery	None
Level 4		
TAX4533 Quality Assurance for Textiles and Clothing	TAX4539 Quality Assurance for Textile and Clothing	15 credits (P)
TAX4534 Textile Colouration and Finishing	TAX4571 Textile Colouration and Finishing	TAX3534 (P) or TAX3370 (CA), 15 Credits (P)
TAM4539 Management Studies	TAM3234 Basics of Human Resource Management	None
	TAM3535 Management Studies	None
TAZ4541 Statistics for Industrial Studies	MHZ3576 Statistics for Industrial Studies	None
TAX4560 Woven Fabric Technology *(Continued to be offered)*	None	15 Credits (P)
Level 5		
TAI5339 Current Topics in Clothing and Textiles	TAI5246 Current topics in clothing and textiles	45 Credits (P)
TAX5534 Plant Utilities	TAX5547 Plant utilities	45 Credits (P)
TAX5562 Knitting Technology	TAX4361 Knitting Technology	15 Credits (P)
Level 6		
TAX6539 Ergonomics	TAX6556 Ergonomics	45 Credits (P) at level 4 and above
TAX6563 Speciality Fabrics	TAX7368 Speciality fabrics	TAX5562 (P) or TAX4361 (P), TAX4560 (P), 45 Credits (P) at level 4 and above
TAX6533 Technical Textiles	TAX6454 Technical textiles	45 Credits (P) at level 4 and above
TAX6362 Advanced Colouration	TAX6367 Advanced colouration	TAX4532 (P) or TAX5551 (CA) or TAX4534(P) or TAX4571 (P), 45 Credits (P) at level 4 and above
Select one from:		
TAY6D95 Individual Project- Type B (Textile & Apparel)	TAY6883 Research Project (Textile Manufacture)	TAI5246 (CA) or TAI5339 (P), 45 Credits (P) at level 4 and above
TAY6A96 Group Project (Textile & Apparel)	TAY6883 Research Project (Textile Manufacture)	TAI5246 (CA) or TAI5339 (P), 45 Credits (P) at level 4 and above
(a) TAY6397 Project Identification & Literature survey (Textile & Apparel), and (b) TAY6A98 Individual Project - Type A	TAY6883 Research Project (Textile Manufacture)	TAI5246 (CA) or TAI5339 (P), 45 Credits (P) at level 4 and above

Elective Courses

Course (IC)	Alternative Course (RC)	Prerequisite
TAX4538 Garment Manufacture	TAX4540 Garment Manufacture	TAX3539 (P) or TAX3331 (CA), 15 Credits (P)
TAX5532 Yarn and Fabric Mechanics	TAX7464 Yarn and fabric mechanics	MHZ3531(P) or MHZ3551(P), MHZ3332 (P) or MHZ3552 (P), TAX4560(P), 45 Credits (P) at level 4 and above
TAM5540 Apparel Merchandising	TAM4445 Apparel Merchandising	15 Credits (P)
TAJ5342 History and Traditions of Clothing	TAJ5353 History and traditions of clothing	45 Credits (P)
TAI5543 Principles of Fashion Design	TAI5552 Principles of fashion design	45 Credits (P)
TAZ5544 Quantitative Techniques	MHZ5570 Quantitative techniques	TAZ4541 (P) or TAZ3536 (P) or MHZ3576 (P), 45 Credits (P)
TAI5345 Foundation Garments	TAI4243 Foundation Garments	TAX3530 (CA) or TAX3537 (P), TAI3533 (CA) or TAI3540 (P), TAX4540 (CR) or TAX4538 (P), 15 Credits (P)
TAI5346 Industrial Garment Washing and Finishing	TAI4344 Industrial Garment Washing and Finishing	15 Credits (P)
TAX6560 Advanced Woven Fabric Technology	TAX6265 Advanced Weaving Preparation and Machinery	TAX4560 (P), 45 Credits (P) at level 4 and above
TAX6561 Yarn Manufacture II	TAX6366 Yarn manufacture II	TAX3532 (P) or TAX3459 (P) , 45 Credits (P) at level 4 and above
TAX6335 Textile Product Engineering	TAX6263 Textile product engineering	45 Credits (P) at level 4 and above
TAX6564 Nonwoven Textiles	TAX5349 Nonwoven textiles	TAX3531 (P) or TAX3458 (P) or TAX3537 (P) or TAX3530 (P), 45 Credits (P)

Industrial Training Modules

Module (IC)	Alternative Course (RC) to offer in 2022/23	Prerequisites
Select any 2 modules:		
TAW4001 Industrial Training (Apparel I) *	TAW4401 Specific Training I (Apparel)	TAI3535 (P) or [TAX3539(P) or TAX3331 (P), TAI3541(P) or TAX4438 (CR), 15 Credits (P)] or [TAX3539(P) or TAX3331 (CA), TAX4438 (CR), 18 Credits (P)]
TAW5003 Industrial Training (Yarn manufacture) *	TAW5403 Specific Training II (Yarn Manufacture)	[TAX3532(P) or TAX3459 (P), 15 Credits (P)] or [TAX3459 (CA), 18 Credits (P)]
TAW5004 Industrial Training (Weaving)*	TAW5404 Specific Training II(Weaving)	[TAX4560 (P), 15 Credits (P)] or [TAX4560 (CA), 18 Credits (P)]
TAW5005 Industrial Training (Chemical processing) *	TAW5405 Specific Training II (Chemical Processing)	[TAX4532(P) or TAX4534(P) or TAX4571(P) or TAX5551(CR), 15 Credits (P)] or [TAX4571(CA), 18 Credits (P)]
TAW5006 Industrial Training (Knitting)*	TAW5406 Specific Training II(Knitting)	[TAX5562 (P) or TAX4361 (P) or TAX4542 (P) or TAX4441(P), 15 Credits (P)] or [TAX4361 (CA) or TAX4441(CA), 18 Credits (P)]

* *Will be offered in 2021/22 for the students completing under IC*

Exclusive course combinations for BIS Honours Study Programme

TAI3342 and TAI5543	TAI3543 and TAI5543	TAX3555 and TAX4560
TAI3539 and TAX3539	TAX3534 and TAX4532	TAX4534 and TAX4532
TAX4531 and TAX5562	TAI4538 and TAX4538	TAI4371 and TAI5543
TAM4539 and DMM5836	TAM4539 and TAM5861	TAI4472 and TAI5543
TAY5553 and TAI5563		

Exclusive course combinations for BIS Honours Study Programme (additional list)

AGI3534	and	AGI3551	AGX5532	And	AGX5565
AGI3535	and	AGI3450	AGX6535	And	AGI6478
AGI3536	and	AGI4561	AGJ5540	And	AGJ5368
AGX4539	and	AGI3552	AGM5546	And	AGM6379
ADU3318	and	MHZ4357	AGI5530	And	AGI5572
AGZ3538	and	MHZ3458	AGI5541	And	AGI5569
AGJ4533	and	AGJ6381	AGI6238	And	AGI5274
AGX4530	and	AGI3553	AGX6534	And	AGI4362
AGX4540	and	AGX4356	AGY6D96	And	AGY6880
ADU4319	and	AGZ5367	AGI6539	And	AGI4460
AGX4531	and	AGI4559	AGI6232	And	AGX6283
AGX4537	and	AGI4555	AGI6237	And	AGX6284
AGM4535	and	AGM4363	AGX6536	And	AGI6582
AGI4538	and	AGI5471	AGI6550	And	AGI6585
AGM4534	and	AGM5475	AGW4002	And	AGW4401
AGX4532	and	AGX6490	AGW5002	And	AGW5401
AGX5543	and	AGI5364			

TAX3531	and	TAX3458	TAX4571	And	TAX5551
TAX3532	and	TAX3459	TAI5348	And	TAI5375
TAX3534	and	TAX3370	TAI5354	And	TAI5376
TAX3537	and	TAX3530	TAI5359	And	TAI5277
TAX3539	and	TAX3331	TAX5562	And	TAX4361
TAI3536	and	TAX5648	TAI5563	And	TAI5478
TAI3538	and	TAI3332	TAX6533	And	TAX6454
TAI3540	and	TAI3533	TAX6335	And	TAX6263
TAI3541	and	TAX4438	TAX6539	And	TAX6556
TAI3342	and	TAI4371	TAM6540	And	TAM6457
TAI3543	and	TAI4472	TAI6549	And	TAI6580
TAJ3346	and	TAI3270	TAX6560	And	TAX7369
TAX4532	and	TAX5551	TAX6560	And	TAX6265
TAX4533	and	TAX4539	TAX6561	And	TAX6366
TAX4534	and	TAX4571	TAX6362	And	TAX6367
TAX4538	and	TAX4540	TAX6563	And	TAX7368
TAM4539	and	TAM3234	TAX6564	And	TAX5349
TAM4539	and	TAM3535	TAX6565	And	TAX6455
TAZ4541	and	MHZ3576	TAI6869	And	TAI5579
TAX4542	and	TAX4441	TAY6D95	And	TAY6882
TAI4545	and	TAI4474	TAY6D95	And	TAY6883

TAJ4547	and	TAI4373	TAY6390	And	TAY5384
TAX5532	and	TAX7464	TAY6A96	And	TAY6882
TAX5534	and	TAX5547	TAY6A91	And	TAY6885
TAI5538	and	TAI4442	TAY6397	And	TAY6882
TAI5339	and	TAI5246	TAY6397	And	TAY6883
TAM5540	and	TAM4445	TAY6A98	And	TAY6883
TAJ5342	and	TAJ5353	TAY6A98	And	TAY6882
TAI5543	and	TAI5552	TAW4001	And	TAW4401
TAZ5544	and	MHZ5570	TAW4002	And	TAW4402
TAI5345	and	TAI4243	TAW5001	And	TAW5401
TAI5346	and	TAI4344	TAW5002	And	TAW5402
TAX3458	and	TAX3530	TAW5003	And	TAW5403
TAX3370	and	TAX5551	TAW5004	And	TAW5404
TAX4571	and	TAX5551	TAW5005	And	TAW5405
TAI4371	and	TAI5552	TAW5006	And	TAW5406
TAI4472	and	TAI5552	TAX4531	And	TAX5562
TAI3342	and	TAI5543	TAZ3536	and	MHZ3576
TAI3543	and	TAI5543	TAZ5550	and	MHZ5570

MHJ5531	and	MHJ5342
MHJ5533	and	MHJ5343
LLJ3245	and	LLJ3360

Exemptions applicable for BIS Honours Study Programme

Qualifications in English Language

Qualification	Course exempted
GCE(A/L) – Simple pass in General English, or any recognised qualification in Science or Technology/Engineering, at the level of Diploma or Degree, the medium of instruction being English (verification needed)	VTL2001

Qualifications in Textile/Apparel and related disciplines

[Applicable for Higher Diploma or Honours degree in Industrial Studies – Apparel Production and Management, Textile Manufacture and Fashion Design and Product Development]

Qualification	Courses exempted		
	Level 3 (and 4)	Level 4 (and 5)	Level 5 & 6
Certificate in Textile Technology (One year Fulltime) and Diploma in Technology (Extension Course), Textile Training & Services Centre, Ratmalana	TAX3531 TAX3537 TAX3539 TAX3532 [TAX3534 and TAX4534] or TAX4532	TAX4560 VTM4300	
Certificate in Fabric Technology (Part time) from the Textile Training and Services Centre, Ratmalana	TAX3537		

Qualification	Courses exempted		
	Level 3 (and 4)	Level 4 (and 5)	Level 5 & 6
Certificate in Textile Dyeing and Printing (Part time) from the Textile Training and Services Centre, Ratmalana	[TAX3534 and TAX4534] or TAX4532		
Diploma in Textile Technology from the Textile Training and Services Centre, Ratmalana	TAX3531 TAX3539 TAX3532 TAX3537 TAX3534	TAX4534 VTM4300 TAX4560	
Certificate in Textile Colouration and Finishing (Part time) and Diploma in Textile Colouration and Finishing (Part time) from the Textile Training and Services Centre, Ratmalana	TAX3531 {TAX3534 and TAX4534} or TAX4532	VTM4300	TAX6362
Diploma in Clothing Technology, Clothing Industry Training Institute, Ratmalana	TAX3537 TAI3540 TAI3538 TAI3541 TAX3539 VTI3500	TAX4533 VTM4300 TAW4001	TAW5001
Certificate in Garment Production Management (Part time) from Clothing Industry Training Institute, Ratmalana	TAX3539		
College Diploma in Clothing Technology and Management (Fulltime), Brandix College of Clothing Technology, Ratmalana	TAI3536 TAX3539 TAX3537 TAI3540 TAI3538 TAI3541	TAX4533 TAZ4541 TAX4538 TAW4001 TAM4539	TAI5538
Diploma in Textile and Apparel Technology (Full time) , Sri Lanka Institute of Textile and Apparel (SLITA), Ratmalana -(Only for the Apparel Production and Management and Fashion Design & Product Development streams)	TAI3536 TAX3539 TAX3537 TAI3540 TAI3538 TAI3541	TAX4532 TAM4539 TAX4533 TAZ4541 TAX4538	TAI5538
Diploma in Textile and Apparel Technology (Full time after 2015), Sri Lanka Institute of Textile and Apparel (SLITA), Ratmalana - (Only for Apparel production and management stream)	TAX3537 TAI3538 TAI3541	TAZ4541 TAX4533	
Diploma in Textile and Apparel Technology (Full time), Sri Lanka Institute of Textile and Apparel (SLITA), Ratmalana - (Only for Textile manufacture stream	TAX3531 TAI3536 TAX3532 TAX3534 TAX3539	TAX4533 TAM4539 TAZ4541	
Diploma in Textile and Apparel Technology (Full time after 2015), Sri Lanka Institute of Textile and Apparel (SLITA), Ratmalana - (Only for Textile manufacture stream	TAX3531 TAI3532 TAI3534	TAX4533 TAX4534 TAZ4541 TAX4560	TAX5562
Diploma in Textile and Apparel Technology (Part time), Sri Lanka Institute of Textile and Apparel (SLITA), Rathmalana	TAX3537	TAX4532	
Diploma in Lanka Institute of Fashion Technology (LIFT) – (Only for the Fashion Design and Product Development Stream)	TAI3342 TAJ3346 TAI3543	TAI4545 TAJ4547	TAI5348
NDT (Textile) (Old Curriculum-till 2007)	MHZ3531 TAX3539 MHZ3332 TAI3536 TAX3531 TAX3537 TAX3534 TAX3532	TAX4532 [Any two of TAX4533 TAW4001 TAX4534 TAW5003 TAM4539 TAW5004 TAX4560 TAW5005 TAW5006]	
NDT (Textile) (Old Curriculum-till 2007) without completion of training	MHZ3531 TAX3539 MHZ3332 TAI3536 TAX3531 TAX3537 TAX3532 TAX3534	TAX4532 TAX4560 TAX4533 TAX4534 TAM4539	
NDT (Clothing) (Old Curriculum-till 2007)	MHZ3531 TAX3537 MHZ3332 TAI3538 TAX3531 TAX3539	TAX4532 [Any two of TAX4533 TAW4001 TAX4534 TAW5001	TAI5538

Qualification	Courses exempted		
	Level 3 (and 4)	Level 4 (and 5)	Level 5 & 6
	TAX3534 TAX3539 TAI3536 TAI3540 TAI3541	TAX4538 TAM4239 TAW5003 TAW5004 TAW5005 TAW5006]	
NDT(Clothing) (Old Curriculum-till 2007) without completion of training	MHZ3531 MHZ3332 TAX3531 TAX3534 TAX3539 TAI3536 TAX3537 TAI3538 TAX3539 TAI3540 TAI3541	TAX4532 TAX4533 TAX4534 TAX4538 TAM4239	TAI5538
NDT (Textile and Clothing Technology) – New Curriculum(after 2007)	MHZ3531 MHZ3332 DMX3533 TAX3531 TAX3532 TAX3534 TAI3536 TAX3537 TAI3538 TAX3539 TAI3540 TAI3541	TAX4532 TAX4533 TAX4534 TAX4538 TAM4539 TAX4560 DMX4576 [Any two of TAW4001 TAW5001 TAW5003 TAW5004 TAW5005 TAW5006]	TAI5538
NDT (Textile and Clothing Technology) – New Curriculum Without completion of training	MHZ3531 MHZ3332 DMX3533 TAX3531 TAX3532 TAX3534 TAI3536 TAX3537 TAI3538 TAX3539 TAI3540 TAI3541	TAX4532 TAX4533 TAX4534 TAX4538 TAM4539 TAX4560 DMX4576	TAI5538
Diploma in Clothing Manufacture – CITI	TAX3537 TAX3539 TAI3540 TAI3541 VTI3500	TAX4533 TAW4001 VTM4300	TAW5001
BSc (Eng) Textile and Clothing, University of Moratuwa	MHZ3531 MHZ3332 TAI3536 TAX3537 TAI3540 TAX3531 TAX3532 TAX3534	TAX4533 TAX4534 TAM4539 TAX4560 MHZ4530 [Any two of TAW4001 TAW5003 TAW5004 TAW5005 TAW5006]	TAI5538 MHZ5530 DMM5836
Licentiateship of Textile Institute (LTI) Examination /Associateship of Textile Institutes (ATI) Technology Group Examination	See below for exemptions for individual papers		
Paper 1 in LTI /Paper 1 (e) in ATI – Textile Technology	TAX3537		
Paper 2 in LTI/Paper 2(a) in ATI – Fibre Technology and Textile Science	TAX3531		
Paper 3 in LTI /Paper 2 (b) in ATI – Yarn Technology and Yarn preparation	TAX3532		
Paper 4 in LTI /Paper 2 (c) in ATI- Fabric technology	TAI3536	TAX4560	
Paper 5 in LTI /Paper 2 (d) in ATI-Dyeing and Finishing Technology	[TAX3534 and TAX4534] or TAX4532		
Paper 6 in LTI – Textile Testing		TAX4533	
Paper 8 in LTI /Paper 2 (f) in ATI-Management Studies		VTM4500	
Paper 9 in LTI- Quality Management in Textiles		TAZ4541	
Paper 10 in LTI- Merchandising of Textile Consumer Products		VTM4300	
Paper 11 in LTI – Garment Technology	TAX3539		
*Certificate in Industrial Studies (OUSL)	See below for exemptions for individual papers		

Qualification	Courses exempted		
	Level 3 (and 4)	Level 4 (and 5)	Level 5 & 6
TTI2631 Yarn manufacture	TAX3532		
TTI2632 Weaving	TAI3536	TAX4560	
TTI2633 Textile Chemical processing	[TAX3534 TAX4534] or [TAX4532 VTI3500]		
TTI3650 Pattern Making	TAI3540, VTI3A00		
Diploma in Technology (Textile Engineering) from the OUSL	MHZ3531MHZ3332 TAX3532 TAX3531 TAX3537	TAX4532 TAX4533 TAX4560	

Qualifications in Agriculture and related disciplines

[Applicable for Higher Diploma or Honours degree in Industrial Studies Agriculture related disciplines]

Qualification	Courses exempted		
	Level 3	Level 4	Level 5
Diploma in Agriculture –Schools of Agriculture or Diploma in Agriculture – Aquinas College	AGI3535 VTI3F00 AGI3536	AGX4530 AGX4540 AGX4539 AGW4002	AGW5002
NDT (Agriculture) or National Diploma in Agriculture (NDA) or Higher National Diploma in Agriculture (HNDA)- Department of Technical Education and Training	AGI3535 AGI3536	AGX4530 AGM4535 AGW4002 VTI4C00 AGX4539 AGX4540	AGW5002
Diploma in Technology (OUSL) – Agricultural Engineering (any specialisation)	EEX3510 AGI3535 AGI3536 VTX3400	AGX4530 AGX4540 AGX4531 AGW4002 AGX4537 VTM4500 AGX4539 VTJ4300	AGW5002
Diploma in Animal Husbandry, Sri Lanka, School of Animal Husbandry, Department of Animal Production and Health, Welisara	AGI3534 VTI3D00	AGI4538	
NDT (Agriculture) - without training	Exemptions granted for NDT (Agriculture) except AGW4002 & AGW5002		

Bachelor of Software Engineering Honours Study Programme

3.3 Bachelor of Software Engineering Honours Study Programme

The Bachelor of Software Engineering Honours Degree has been designed carefully according to the requirements of IEEE/ACM guideline and conforms to the requirements of Sri Lanka Qualification Framework (SLQF).

A student could obtain a Higher Diploma in Software Engineering after successful completion of a required combination of courses and credit requirements.

Duration

The minimum duration of the Honours Degree Programme is 4 years and the maximum number of years a student can spend to complete the degree Programme is twelve (12) years.

Medium of Instruction

Medium of instruction of the Study Programme is English.

Eligibility for Admission to the Programme of Study

Please note that these admission requirements are only for the students entering the Study Programme from the academic year 2019/20 onwards.

A person seeking admission to the Programme leading to the award of the Degree of Bachelor of Software Engineering Honours shall be required to possess one of the following qualifications and **pass the selection** test conducted by the Open University of Sri Lanka.

- Obtained three passes in General Certificate of Education (Advanced Level) in any stream, excluding General English and General Information Technology subjects or
- Obtained "C" passes in any 3 subjects in Cambridge/Edexcel Advanced Level examination or
- Passes in any three foundation subjects of OUSL or
- Any other qualification acceptable to the Senate

Requirements for the Award of the Degree

In order for a student to qualify for the award of the Degree of Bachelor of Software Engineering Honours, S/he has to meet the following requirements within a maximum period of 12 academic years.

1. Obtain passes for all compulsory courses, and
2. Fulfil the Level-wise and Category-wise minimum Credits for the Degree as given in Table 5(a) (for the academic year 2021/22) or Table 5(b) (from the academic year 2022/23).

Requirements for the Award of the Higher Diploma

In order for a student to qualify for the award of the Higher Diploma of Bachelor of Software Engineering Honours, s/he has to meet the following requirements within a maximum period of 12 academic years.

1. Obtain passes for all compulsory courses of levels 3 and 4 for the specialisation, and
2. Fulfil the Level-wise and Category-wise minimum Credits for the Diploma as given in Table 6(a) (for the academic year 2021/22) or Table 6(b) (from the academic year 2022/23).

Criteria of computing Grade Point Average (GPA)

The GPA shall be computed by considering the courses at levels 4, 5, and 6 totalling to 60 credits (for interim curriculum) or 70 credits (for the revised curriculum). In selecting the courses those credits the following sequence will be followed.

(1) Compulsory courses at levels 5 and 6
(2) Non-compulsory courses at levels 5 and 6
(3) Compulsory courses at level 4

In a situation, where exactly required credits cannot be obtained, the courses are selected to the nearest value below sixty (60) or seventy (70), and the remainder credit is taken as a Part Credit of the next course.

The Grade Point Average (GPA) is computed using (a) or (b)

(a)

$$GPA = \frac{\left\{\sum \quad (CreditRatingoftheCourse) * (GPV)\right\} + (PartCreditoftheCourse) * (GPV)}{60}$$

(b)

$$GPA = \frac{\left\{\sum \quad (CreditRatingoftheCourse) * (GPV)\right\} + (PartCreditoftheCourse) * (GPV)}{70}$$

Table 5(a)- Category-wise and level-wise minimum credit requirements for the award of the Bachelor of Software Engineering Honours Degree until the academic year 2021/22 (Applicable for Interim Curriculum)

Category	Minimum credits	Maximum credits
Industrial (I)	75 subject to a minimum of 30 credits being at levels 5 and 6, of which minimum of 15 credits at level 6 and a maximum of 30 credits being of Category I at level 3	88 subject to a minimum of 30 credits being at levels 5 and 6, of which minimum of 15 credits at level 6 and a maximum of 30 credits being of Category I at level 3
Engineering (X)		
Management (M)	8	21
General (J)	8	20
Mathematics (Z)	11	24
Project (Y)	10 subject to a minimum of 10 credits being at level 6	23 subject to a minimum of 10 credits being at level 6
Language (L or E))	0	5
Computer literacy (K)	0	5
Total	125 subject to a minimum of 60 credits being at levels 5 and 6, of which at least 30 credits at level 6.	

Table 5(b) - Category-wise and level-wise minimum credit requirements for the award of the Bachelor of Software Engineering Honours Degree from the academic year 2022/23 (Applicable for Revised Curriculum)

Category	Minimum credits	Maximum credits
Industrial (I)	65 subject to a minimum of 30 credits being at levels 5 and 6, of which minimum of 15 credits at level 6	80 subject to a minimum of 30 credits being at levels 5 and 6, of which minimum of 15 credits at level 6
Engineering (X)		
Management (M)	17, subject to a minimum of 12 at levels 5 or above	30, subject to a minimum of 12 at levels 5 or above
General (J)	5	20
Mathematics (Z)	12, subject to a minimum of 3 at levels 5 or above	21, subject to a minimum of 3 at levels 5 or above
Project (Y)	8 subject to a minimum of 6 credits being at level 6	12 subject to a minimum of 6 credits being at level 6
Language (L or E)	0	4
Industrial Training (W)	8	8
Total	130 subject to a minimum of 60 credits being at levels 5 and 6, of which at least 30 credits at level 6.	

Table 6(a) - Category-wise and level-wise minimum credit requirements for the award of the Higher Diploma in Software Engineering until 2021/22 (Applicable for Interim Curriculum)

Category	Minimum credits	Maximum credits
Industrial (I)	45 subject to a minimum of 30 credits being at levels 3 and 4, of which minimum of 15 credits at level 4, and a maximum of 30 credits being of Category I at level 3	57 subject to a minimum of 30 credits being at levels 3 and 4, of which minimum of 15 credits at level 4, and a maximum of 30 credits being of Category I at level 3
Engineering (X)		
Management (M)	0	8
General (J)	3	8
Mathematics (Z)	5	8
Project (Y)	0	10
English (L or E)	0	5
Computer literacy (K)	0	5
Total	65 of which at least 30 credits at level 4 and 5	

Table 6(b)- Category-wise and level-wise minimum credit requirements for the award of the Higher Diploma in Software Engineering from 2022/23 (Applicable for Revised Curriculum)

Category	Minimum credits	Maximum credits
Industrial (I)	30 at levels 3 and 4, of which minimum of 15 credits at level 4	44 subject to a minimum of 30 credits being at levels 3 and 4, of which minimum of 15 credits at level 4
Engineering (X)		
Management (M)	5, at levels 3 or 4	10, subject to minimum 5 at levels 3 or 4
General (J)	2	9
Mathematics (Z)	9, at levels 3 or 4	12, at levels 3 or 4
Project* (Y)	5	9
Industrial Training* (W)		
Language (L or E)	0	4
Total	65, subjected to a minimum of 30 at level 4	

Limits for Exemptions

Notwithstanding any exemptions granted for prior qualifications, a student shall acquire, by successful completion in accordance with the Scheme of Assessment, a minimum number of credits as shown below for the awards.

Minimum credit requirements a student shall acquire by successful completion in accordance with the Scheme of Assessment for the award of the Honours Degree and Higher Diploma are as given below. A list of qualifications for which exemptions could be claimed is given in Page 74.

Credit Description	Interim Curriculum	Revised Curriculum
For Degree		
Levels 6 (considering all Categories)	15	15
Levels 5 and 6 (considering all Categories)	30	30
Levels 5 and 6 (considering X, I, Y and Z Categories)	20	20
Total (considering all Categories and all levels from 3 to 6)	63	65
For Higher Diploma		
Level 4 (considering all Categories)	15	15
Level 4 (considering X and I Categories)	8	8
Level 3 and 4 (considering X, I and Z Categories)	18	20
Total (considering all Categories and all levels from 3, 4 and/or 5)	33	33

Curricula for Different Specialisations

The following pages give the courses for Bachelor of Software Engineering Honours Study Programme for meeting the award requirements under IC and RC. Re-registering students, despite the curriculum under which they expect to meet the award requirement will have to refer the curricula presented here.

Important Notes

(a) Maximum number of credits per academic year and General pre-requisites

Maximum number of credits a student can register at the Open University of Sri Lanka per academic year 38.

Also note that in addition to the pre-requisites mentioned in the curricula the following pre-requisite (Level Pre-requisites) have to be fulfilled for registering courses.

For Courses at level 3: FDE3020(CR), LTE3401(CR) or VTL2001
For Courses at level 4: {EDE3001(EL) or FDE3020(CA)}, LSE3204(EL) or LTE3401(CA) or VTL2001
For Courses at level 5: FDE3020(P), LTE3401(P) or VTL2001

For Courses at level 6 and above: FDE3020(P), LEE3410(P) or VTL2001

(b) General (J) and Management (M) category courses

General (J) and Management (M) category course are included in the curriculum as Compulsory or Elective Courses.

(d) Fulfilment of Course Category Credits and Compulsory Courses under RC

The students who aspire to receive awards under the RC need to register for the following courses, except under the conditions mentioned in the **Remarks** column of the following Table, to meet course category credit requirements and compulsory course requirements for awards under RC. IC student may also register for these courses.

Course (Revised Curriculum)	Prerequisites	Remarks
EEI4366 Data Modelling and Database Systems	EEI3266(CA), 15 credits	Exempted for EEI5566(P)
AGM4307 Economics and Marketing for Engineers	Pass in 18 credits in Level 3	Exempted for EEM5860(P)
EEI4267 Requirement Engineering	EEX3467(P) OR EEX4467(P)	
EEI4346 Web Technology	EEI3346(CR) OR EEI3364(P)	
EEY4189 Software Design in Group	EEX3467(P) OR EEX4467(P), EEI3262(CA) OR EEI4562(CA) OR EEX4562(P) OR EEX4362(CA) OR EEI4362(CA) OR EEI3269(CA), 26 credits from level 3	
EEI5270 Information Security	EEX3467(P) OR EEX4467(P), EEX4565(P) OR EEX4465(P), 30 credits	
EEX5362 Performance Modelling	EEI4364(P) OR EEI3346(P), TAZ4261(P) OR EEZ4361(P), 33 pass credits and 7 CA credits	
MHJ5372 Technology, Society and Environment	45 credits	Exempted for MHJ5563(P)
EEM6202 Professional Practice	30 credits at level 3, 24 credits at 4 or above	

Curriculum for Bachelor of Software Engineering Honours Study Programme

All the courses of the IC have been discontinued. If a student needs a course to fulfil the award requirements under IC, such student is required to register for the alternative course/s of the RC given in the second column.

Compulsory Courses

Course (IC)	Alternative Course (RC)	Prerequisite
EEX3363 Introduction to computing	EEX3373 Communications and Computer Technology	EEX4467(P) OR EEX3467(CR)
EEZ3361 Mathematics for computing	MHZ3459 Basic Mathematics for Computing	None
EEX4565 Data structures and algorithms	EEX4465 Data Structures and Algorithms	EEX3373(CA) OR EEX3363(P), MHZ4360(P) OR MHZ4256(CR), 15 credits
EEX4467 Software engineering concepts	EEX3467 Software Engineering Concepts and Programming	None
EEI4562 Object oriented design and programming	EEI3262 Introduction to Object Oriented Programming	None
	EEI4362 Object Oriented Design	EEI3262(CA), EEX4467(P) OR EEX3467(CA), 15 credits
EEI4364 Networking and web technology	EEI3346 Web Application Development	None
EEI4266 Data modelling and database systems	EEI3266 Information Systems and Data Management	None
MHZ4360 Discrete mathematics I	MHZ4256 Mathematics for Computing	None
TAZ4261 Probability and statistics	MHZ4377 Applied Statistics	MHZ3459(CA) OR EEZ3361(CA), 15 Credits(P) in level 3
EEJ4360 Communication skills for engineers	AGM3263 Communication Skills	None

EEX5563 Computer Architecture and Operating Systems	*(Continued to be offered)*	EEX3363(P) OR EEX3373(P), 36 credits
EEI5361 Human computer interaction	EEI4361 User Experience Engineering	EEX4467(P) OR EEX3467(CA), 15 credits
EEI5567 Software quality assurance and testing	EEI5467 Software Testing and Quality Assurance	EEX4467(P) OR EEX3467(P), 30 credits
EEM5860 Management and professional issues	AGM4307 Economics and Marketing for Engineers	None
	CVM5402 Accounting for Engineers	AGM4307(P)
	DMM6602 Management for Engineers	CVM5402(CA), 60 credits
MHZ5360 Discrete mathematics II	MHZ5375 Discrete Mathematics	MHZ4360(P) OR MHZ4256(CR), EEZ3361(P) OR MHZ3459(P)
EEI6560 Software project management	EEI6360 Software Project Management	60 credits
EEI6567 Software architecture and design	EEI6567 Software architecture and design	EEI4562(CA) OR EEX4562(CA) OR EEX4362(CA) OR EEI4362(CA), EEX4467(P) OR EEX3467(P)
EEX6563 Software construction	EEX6363 Compiler Construction	EEX4565(P) OR EEX4465(P), MHZ5360(CA) OR MHZ5355(P), 60 credits
EEY6A89 Group Project (Software Engineering)	EEY4189 Software Design in Group	EEX4467(P) OR EEX3467(P), EEI4562(CA) OR EEI3262(CA) OR EEI3269(CA), 26 credits at Level 3
	EEY6189 Research Methodology and Project Identification	60 credits
	EEY6689 Final Project – Software Engineering	EEI6560(CA) OR EEI6360(CR), EEI6567(CR), EEY6189(CA), 75 credits

New elective course

Course	Pre-requisites
EEI3269 Introduction to Mobile Application Development	None
EEI3668 Graphics and Multimedia Design*	None

Course	Pre-requisites
EEI3372 Programming in Python	None
EEM3366 Introduction to Business Studies	None
LLJ3245 Introduction to Laws of Sri Lanka	None
EEI4369 Mobile Application Development for Android	EEI3269(CR) OR EEI3369(P)
EEX4373 Data Science	EEI4366(CR), 30 credits at level 3
MHJ4241 History of Technology	20 credits
EEY4489 Higher Diploma Project – Software Engineering	45 credits
EEI5270 Information Security	EEX3467(P) OR EEX4467(P), EEX4565(P) OR EEX4465(P), 30 credits
EEI5280 Data Communication and Networking	45 credits
EEX5376 Embedded Systems and Internet of Things	EEI4562(CA) OR EEI3266(P), EEI3372(P), AGM3263(CA), EEX3363(P) OR EEX3373(P)
EEI6171 Emerging Technologies	60 credits
*EEI6561 Electronic Commerce	EEI3346(P) OR EEI4364(P), 15 credits at level 4 or above
EEM6202 Professional Practice	30 credits at level 3, 24 credits at level 4 or above
EEX6377 Principles and Applications of Data Mining	EEX4565(P) OR EEX4465(P), TAZ4261(P) OR EEZ4361(P), EEI5361(P) OR EEI4366(P), 45 credits

- Not offered in 2021/2022

Levels 5 and 6 Elective Courses

Course (IC)	Alternative Course (RC)	Prerequisites
EEI5566 Advanced database systems	EEI5466 Advanced Database Systems	EEI4266(P) OR EEI3266(P), AGM3263(CR) OR EEJ4360(P)
MHJ5563 Technology, society and environment	MHJ5372 Technology, Society and Environment	45 credits
EEI6565 Artificial intelligence techniques	EEX6340 AI Techniques and Agent Technology	EEX4565(P) OR EEX4465(P), EEX3467(P) OR EEX4467(P), MHZ4360(P) OR MHZ4256(P), 45 credits
	EEX6278 Neural Networks and Fuzzy Logic Applications	

Industrial Training module

Module (IC)	Alternative Course (RC)	Prerequisites
EEW5011 Industrial training module (Software Engineering)	*on offer for IC*	EEX4467(P) OR EEW3467(P), EEI4562(CA) OR EEX4562(CA) OR EEX4362(CA) OR EEI4362(CA), EEX4465(P) OR EEX4565(P), 40 credits
for RC students	EEW5811 Industrial Training - Software	

Exclusive Course Combinations for BSEHons Study Programme

Old Course/Training Module	Equivalent course/s or training module/s (Interim)	Equivalent course/s (Revised)
ECX3163 Introduction to computing	EEX3363 Introduction to computing	EEX3373 Communications and Computer Technology
ECZ3161 Mathematics for computing	EEZ3361Mathematics for computing	EEZ3461Basic Mathematics for Computing
ECX4265 Data structures and algorithms	EEX4565 Data structures and algorithms	EEX4465 Data Structures and Algorithms
ECX4267 Software engineering concepts	EEX4467Software engineering concepts	EEX3467 Software Engineering Concepts and Programming
ECI4262 Object oriented design and programming	EEI4562 Object oriented design and programming	EEI3262 Introduction to Object Oriented Programming
		EEI4362Object Oriented Design

Old Course/Training Module	Equivalent course/s or training module/s (Interim)	Equivalent course/s (Revised)
ECI4164 Networking and web technology	EEI4364Networking and web technology	EEI3346 Web Application Development
ECI4166 Data modelling and database systems	EEI4266Data modelling and database systems	EEI3266Information Systems and Data Management
MPZ4160 Discrete mathematics I	MHZ4360Discrete mathematics I	MHZ4256Mathematics for Computing
TTZ4161 Probability and statistics	TAZ4261Probability and statistics	EEZ4361Probability & Statistics
ECJ4160 Communication skills for engineers	EEJ4360Communication skills for engineers	AGM3263 Communication Skills
ECX5263 Computer organization and operating systems	EEX5563 Computer organization and operating systems	EEX5563 Computer Architecture and Operating Systems
ECI5161Human computer interaction	EEI5361Human computer interaction	EEI4361User Experience Engineering
ECI5267 Software quality assurance and testing	EEI5567 Software quality assurance and testing	EEI5467Software Testing and Quality Assurance
ECI5266 Advanced database systems	EEI5566Advanced database systems	EEI5466Advanced Database Systems
ECX5265 Software construction	EEI5565Software construction	EEX6363Compiler Construction
MPZ5160 Discrete mathematics II	MHZ5360Discrete mathematics II	MHZ5375 Discrete Mathematics
MPJ5263 Technology, society and environment	MHJ5563Technology, society and environment	MHJ5372 Technology, Society and Environment
ECM5360 Management and professional issues	EEM5860Management and professional issues	AGM4307 Economics and Marketing for Engineers
		CVM5402 Accounting for Engineers
		DMM6602 Management for Engineers
ECX6263 Software construction	EEX6563Software construction	EEX6363 Compiler Construction
ECI6260 Software project management	EEI6560 Software project management	EEI6360 Software Project Management
ECI6261 Electronic Commerce	EEI6561Electronic Commerce	No equivalent course
ECI6267 Software architecture and design	EEI6567 Software architecture and design	EEI6567 Software architecture and design
ECI6265 Artificial intelligence techniques	EEI6565 Artificial intelligence techniques	EEX6340 AI Techniques and Agent Technology
		EEX6278 Neural Networks and Fuzzy Logic Applications
ECY6489 Group Project (Software Engineering)	EEY6A89 Group Project (Software Engineering)	EEY6689 Final Project – Software Engineering
		EEY6189 Research Methodology and Project Identification
ECW4280 Specific Training I (Software Engineering)	EEW4080 Specific Training I (Software Engineering)	EEW5811 Industrial Training - Software
ECW4281 Specific Training II (Software Engineering)	EEW4081 Specific Training II (Software Engineering)	
ECW5011 Industrial Training Module (Software Engineering)	EEW5011 Industrial Training Module (Software Engineering)	

Exemptions applicable for BSEHons Study Programme

Qualifications in English Language

Qualification	Course exempted
G C E (A/L) – Simple pass in General English, or any recognised qualification in Science or Technology/Engineering, at the level of Diploma or Degree, the medium of instruction being English (verification needed)	VTL2001

The recommended exemptions are granted to the students who have satisfied the admission requirement to the Programme of Study.

Qualification	Courses Exempted
Diploma in Technology (OUSL) Civil, Textile, Agriculture	VTI3F00, EEZ3461
Diploma in Technology (OUSL) Electrical, Electronics, Mechanical, Mechatronics	VTI3F00, EEZ3461, EEX3373
Diploma in Technology (OUSL) Computer	VTI3F00, EEZ3461, EEX3373, EEX3467, EEX4465
BSc/BA or equivalent University degree (except specialisation in Computing)	VTI3G00
BCS (British Computer Society) Certificate	VTI3F00, EEX3467, EEX4465
SLIIT (SL Institute of Information Technology) Associate Diploma in IT	VTI3F00, EEX3373, EEI3346, EEI3266
SLIIT (SL Institute of Information Technology) Diploma in IT	VTI3F00, EEX3373, EEI3346, EEI3266, EEX4465, EEX3467
CMA (Certified Management Accountants)– Stage I or II	VTI3G00
CIMA (Chartered Institute of Management Accountants) - Stage I or II	VTI3G00
IBSL (Institute of Bankers of Sri Lanka) Certificate or Advance Certificate in Banking and Finance	VTI3G00
NIBM (National Institute of Business Management) Diploma in Computer System Design (DCSD) (from 2010)	VTI3F00, EEI3346, EEI3266, EEI3262, EEX3373, EEX3467, EEI4362
NIBM (National Institute of Business Management) Higher Diploma in Computer Based Information Systems (HDCBIS) (from 2010)	EEI3269, EEI4346, ECI4366, EEX4465, EEI4369, EEY4189, VTI3F00
NDT(National Diploma in Technology) Electronic & Telecom or NDES(National Diploma in Engineering Sciences) (Old curriculum)	VTI3G00, EEZ3461, EEX3373
Completion of first and second year of NDT in any field	VTI3G00, EEZ3461
NDES (Old curriculum) in any field	VTI3G00, EEZ3461,
NDES (New curriculum) in any field except (Electronics, Power or Telecommunication)	VTI3G00, EEZ3461

Qualification	Courses Exempted
NDES (Electronics, Power or Telecommunication) (New curriculum)	VTG00, EEZ3461, EEX3373
Completion of 1st and 2nd phases of NDES (New curriculum) 2003 Power, Electronics or Telecommunication	VTI3G00, EEZ3461
NDET (National Diploma in Engineering Technology) (Electrical/Electronic)	VTI3G00, EEX3373
HNDE (Higher National Diploma in Engineering) (Electrical Power/Electronics)	VTI3G00, EEZ3461, EEX3373
NDICT (National Diploma in Information and Communication Technology)	VTI3F00, EEX3373
Diploma in System Design and Programming, Vocational Training Authority (VTA)	VTI3F00, EEX3373
HNDIT (Higher National Diploma in IT) Semester II	EEX3467, EEX4465, VTI3C01
HNDIT (Higher National Diploma in IT) Semester III	EEI3266, EEI4366, VTI4C00
HNDIT (Higher National Diploma in IT), IT2004 Introduction to Communication and Computer Networks and IT 4103 Web Programming	EEI3346, EEX3373
Higher National Diploma in Information Technology (HND IT), SLIATE, mathematics for Computing &GCE A/L combine mathematics – (new syllabus from 2010)	EEZ3461
HNDIT (Higher National Diploma in IT) Semester III with IT 3103 Object Oriented Analysis and Design	EEI3262, EEI4362
HNDIT (Higher National Diploma in IT), IT4301 Software Testing and IT4303 Software Quality Management	EEI5467
BIT – Bachelor in Information Technology (University of Colombo) 1st year – Diploma in IT	VTI3F00, EEX3373, EEI3266
BIT – Bachelor in Information Technology (University of Colombo) 3rd Semester	EEX3467
BIT – Bachelor in Information Technology (University of Colombo) 2nd year – Higher Diploma in IT	EEI4366, EEX4465
BIT - Bachelor in Information Technology (University of Colombo)	EEZ3461, MHZ4256
BIT - Bachelor in Information Technology (University of Colombo) IT3503 - Web Development Techniques and IT4503 - Data Communications & Networks	EEI3346, EEI4346
ACS (Australian Computer Society) Diploma in IT (new syllabus from 2006)	VTI3F00, EEX3467
ACS (Australian Computer Society) Diploma in IT (old syllabus)	VTI3G00
OUSL Faculty of Engineering Technology MPZ3230 or MPZ3231 or MHZ3531	EEZ3461

Qualification	Courses Exempted
OUSL Faculty of Engineering Technology MHZ3531 or EEZ3561	MHZ3459
OUSL Faculty of Engineering Technology EEX3465 or EEX3467 (DIST)	EEX3467
OUSL Faculty of Engineering Technology EEI3364 or EEI3346 (DIST)	EEI3346
OUSL Faculty of Engineering Technology EEX3262 or EEI3262 (DIST)	EEI3262
OUSL Faculty of Engineering Technology EEI3566 or EEI3266 (DIST)	EEI3266
OUSL Faculty of Engineering Technology EEI3368 or EEI3668 (DIST)	EEI3668
OUSL Faculty of Engineering Technology EEI3369 or EEI3269 (DIST)	EEI3269
OUSL Faculty of Engineering Technology EEM3466 or EEM3366 (DIST)	EEM3366
OUSL Faculty of Engineering Technology MPZ4230 or MHZ4530 or EEZ4361	MHZ4256
OUSL Faculty of Engineering Technology ECX3233 or EEX3533 or EEX3336	EEX3373
OUSL Faculty of Engineering Technology ECX4235 or EEX4535	EEX4465
OUSL Faculty of Engineering Technology ECX4237 or ECX4247 or EEX4547 or ECX3217 or EEX3517or EEX3417	EEX3467
OUSL Faculty of Engineering Technology ECX5236 and ECX5235	EEX5563
AAT- Association of Accounting Technicians (Sri Lanka) - Stage II or III	VTI3G00
Association of Accounting Technicians – Stage II	15

Advanced Certificate in Apparel Technology Study Programme

3.5 Advanced Certificate in Apparel Technology Study Programme

This Programme is designed to provide an opportunity to those engaged in the relevant industry to gain an in-depth knowledge in the subject of specialisation.

Advanced Certificate in Apparel Technology Programme is the equivalence to the specialisation offered under the Advanced Certificate in Industrial Studies, The Programme was revised according to the SLQF requirements and renamed as Advanced Certificate in Apparel Technology.

Eligibility for Admission to the Programme of Study

A person seeking admission to the Programme leading to the award of the Advanced Certificate in Apparel Technology shall be required to have,

1) obtained six (06) passes including mathematics and the first language in the General Certificate of Education (Ordinary Level) Examination, Sri Lanka or,
2) secured an equivalent or higher qualification acceptable to the Senate

Medium of Instruction

The Programme is offered in both Sinhala and English.

Requirements for the Award of the Advanced Certificate in Apparel Technology

The OUSL awards the Advanced Certificate in Apparel Technology to students who have acquired 30 credits by completing the courses belongs to the interim Curriculum listed below.

Those who possess appropriate qualifications may seek exemptions from relevant courses of the Programme. However, they still require registering and successfully completing courses for minimum of 15 credits for the award of the Advanced Certificate in Apparel Technology.

Awards under the Interim Curriculum

The students contemplating to complete the awards requirements under the Interim Curriculum have to complete all course requirements by the end of the academic year 2020/21. In this academic year (2021/22), they can register for the alternative courses of the Interim Curriculum. Failing to complete the award requirements under the Interim Curriculum, the students must register to the Revised Curriculum in the academic year 2021/22.

Phasing out of the Interim Curriculum

The phasing out of the Interim Curriculum was completed in the academic year 2020/2021, hence fulfilment of the requirements for the awards under the Interim Curriculum was ceased at the end of the academic year 2020/21. The phasing out plan is as follows.

- For the students registered in the academic years 2017/18 and 2019/20 in the Interim Curriculum-Offering alternative courses of the Revised curriculum in the academic year 2021/22.

Introducing the Revised Curriculum

The Revised Curriculum was introduced from the academic year 2019/20.

- 2019/20 – Offered all the level 2 courses of the Revised Curriculum

Awards under the Revised Curriculum

All the students enrolling to the Programme from the academic year 2020/21 shall pass out under the Revised Curriculum. Therefore, they will be offered courses from the Revised Curriculum.

Path for the completion of the Present Students

The following two categories of the students will be registered to the revised curriculum

- The students, who will not complete the requirements to be eligible to get the award under the Interim Curriculum by the end of the academic year 2020/21, shall be registered as a new student in the Revised Curriculum.
- The students, those who do not complete the requirement for the award and reach the maximum duration of the Programme in the academic year 2020/21, shall also be registered as a new student in the Revised Curriculum.
- Such students are considered as new students in the Revised Curriculum and they should complete 50% of the total credits (15 credits) of the Programme to be eligible to the award under the Revised Curriculum.

Curriculum

Course credit requirement, compulsory courses and the course conversions are given in Tables 9(a), 9(b), and 9(c) respectively.

Table 9 (a)- Course Credits Requirement for the Award of Advanced Certificate in Industrial Studies - Apparel Technology (Interim Curriculum)

Category	Minimum Credit requirement	Maximum Credit requirement
Industrial (I)	25 at Level 2	28 at Level 2
Engineering (X)		
Mathematics (Z)	0	5
Project (Y)	0	2
Total credits	30 from level 2	

Curriculum for Advanced Certificate in Apparel Technology

Table (b) -Level 2 Compulsory Courses

The courses of the Interim Curriculum were discontinued in the Academic Year 2019/20. Instead, the student can enrol for the alternative courses given in the second column of the following Table.

Course (IC)		Alternative Course (RC)		Prerequisite
TAI2530	Introducing textiles	TAX2585	Introducing Textiles	None
TAI2F34	Apparel technology	TAI2886	Apparel Technology	None
TAI2590	Laboratory practice and industrial exposure	TAI2488	Laboratory Practice and Industrial Exposure	None
TAZ2535	Mathematics and science for textile and apparel	TAZ2587	Mathematics and Science for Textile Technology	None
	None	TAI2289	Introducing Fashion	None
	None	TAY2690	Advanced Certificate Project	None

Table 9(c)- Conversions for Curriculum Revision in 2020/21

For the students who have already completed the courses of the IC are converted to the equivalent courses as given in the Table below.

Course (IC)		Equivalent course/s of Revised curriculum	
TAZ2535	Mathematics and science for textile and apparel	TAZ2587	Mathematics and Science for Textile Technology
TAI2530	Introducing textiles	TAX2585	Introducing Textiles
TAI2F34	Apparel technology	TAI2886	Apparel Technology
TAI2590	Laboratory practice and industrial exposure	TAI2488	Laboratory Practices and Industrial Exposure
-	None	TAI2289	Introducing Fashion
-	None	TAY2690	Advanced Certificate Project

Exemptions applicable for Advanced Certificate in Apparel Technology Study Programme

Qualification	Courses exempted
GCE(A/L) – Simple pass in General English OR Any recognized qualification in Science or Technology/Engineering, at the level of Diploma or Degree, the medium of instruction being English (verification is needed)	VTL2001
● G.C.E.(A/L) Sri Lanka – Combined mathematics or ● G.C.E.(A/L) Sri Lanka – Pure mathematics and Applied mathematics or ● G.C.E.(A/L) Sri Lanka – Physics	TAZ2587
Certificate in Fabric Technology (Part time) from the Textile Training and Services Centre.	TAX2585
Certificate in Garment Production Management (Part time) from Clothing Industry Training Institute.	TAI2886
Certificate in Garment Industry Management from Garment Industry Management Institute.	TAI2886
Licentiateship of Textile Institute (LTI) Examination /Associateship of Textile Institutes (ATI) Technology Group Examination - Paper 1 in LTI /Paper 1(e) in ATI (Textile Technology)	TAX2585
Licentiateship of Textile Institute (LTI) Examination - Paper 2 in LTI (Garment Technology)	TAI2886

Annex: Conversion of Courses

The following Tables give the equivalent course/s of the Revised Curriculum to those of the Interim Curriculum. As all the courses of the Interim Curriculum are not available from the academic year 2021/22 onwards, you may register for the equivalent course/s of the Revised Curriculum with the same pre-requisites mentioned in the student **Guidebook 2017/18**, and obtain backward conversions to complete the Higher Diploma and Degree requirements during the academic year 2021/22.

Please note that the following rules apply in the conversions.

Conversion type	Converted Course	
	Grade	**Credit**
one - one	Acquires the marks of the original course, and grade is determined accordingly.	Credits of the Converted Course/s
One - many	All converted courses are assigned the marks of the original course and grades are determined accordingly.	
Many - one	Credit based weighted average mark is calculated for original courses and allocated to the converted course. The grade is determined accordingly.	
Many - many	Credit based weighted average mark is calculated for original courses and assigned to all converted courses. The grades are determined accordingly.	

Courses of Bachelor of Technology Honours in Engineering Study Programme

Courses offered by the Department of Civil Engineering

Course of the Interim Curriculum	Course of the Revised Curriculum
CVX3531 Structural Analysis & Design I	CVX3441 Structural Analysis & Design I
CVX3532 Hydraulics & Hydrology	CVX3340 Introduction to Hydraulics & Hydrology
CVX3533 Surveying I	CVX4342 Surveying I
CVX3534 Strength of Materials	CVX3442 Strength of Materials
CVX4530 Soil mechanics & Introduction to Rock Mechanics	CVX4343 Soil Mechanics
CVX4531 Structural Analysis & Design II	CVX4445 Structural Analysis and Design II
CVX3530 Construction Materials	CVX4446 Construction Engineering & Materials
CVX4532 Construction Engineering & Planning	
CVX4533 Irrigation Engineering	CVX4347 Irrigation Engineering
CVX4534 Water Supply and Sewerage Engineering	CVX4348 Water and Wastewater Engineering
CVX4535 Building Engineering	CVX4349 Building Engineering
CVX4536 Highway Engineering	None

Course of the Interim Curriculum		Course of the Revised Curriculum	
CVX4538	Quantity Surveying	CVX4350	Quantity Surveying
CVX5530	Surveying II	CVX5440	Surveying II
CVX5531	Mechanics of Fluids	CVX4240	Hydraulic Engineering I
		CVX4241	Engineering Hydrology
		CVX5241	Hydraulic Engineering II
		CVX5242	Mechanics of Fluids
CVX5532	Engineering Geology	CVX4344	Engineering Geology
CVX5533	Structural Analysis	CVX5443	Structural Analysis
CVX6530	Geotechnics	CVX6444	Geotechnics
		CVX7241	Geotechnical Design
CVX6831	Construction Engineering & Management	CVX6546	Construction Engineering & Management
CVX6832	Structural Design	CVX7640	Structural Design
CVX6533	Environmental Engineering	CVX6345	Environmental Engineering
CVY6D95	Individual Project – Type B (Civil)	CVY7880	Engineering Research Project (Civil)
CVY6A96	Group Project (Civil)	CVY7880	Engineering Research Project (Civil)
CVY6397	Project Identification & literature survey	CVX6180	Research Methodology and Project Identification (Civil)
CVY6A98	Individual Project – Type A (Civil)	CVY7880	Engineering Research Project (Civil)
CVW4002	Industrial Training (Civil diploma)	CVW4802	Industrial Training (Civil diploma)
CVW5003	Industrial Training (Civil-undergraduate)	CVW6803	Industrial Training (Civil-undergraduate)

Courses offered by the Department of Electrical and Computer Engineering

Course of the Interim Curriculum		Course of the Revised Curriculum	
EEX3350	Electronics I	EEX3351	Electronics I
EEX3510	Electro Techniques	EEX3410	Introduction to Electrical Engineering
EEX3517	Software Development for Engineers	EEX3417	Software Development for Engineers
EEX3533	Communication & IT	EEX3336	Communications and Computer Technology
EEX3531	Electrical Circuits & Measurements	EEX3331	Electrical measurements and instrumentation
		EEX4331	Circuit Theory and Design
EEX3532	Electrical Power	EEX4332	Electrical Power
EEX4530	Fault Diagnosis in Electronic Circuits		None
EEX4350	Electronics II	EEX4351	Electronics II
EEX4533	Communication	EEX4330	Communications
EEX4534	Electrical Installations	EEX4434	Electrical Installations
EEX4535	Data Structures and Algorithms	EEX4435	Data Structures and Algorithms
EEX4536	Microprocessors and Interfacing	EEX4436	Microprocessors and Interfacing
EEX4547	Software Engineering	EEX4347	Software Engineering
		EEX3417	Software Development for Engineers

Course of the Interim Curriculum		Course of the Revised Curriculum	
EEX4548	Electrical Machines	EEX4448	Electrical Machines
EEX4552	Power Systems I	EEX4542	Power Systems I
EEX4562	Object Oriented Design and Programming	EEX4362	Object Oriented Design and Programming
EEX5531	Network theory	EEX7231	Advanced circuit design and analysis
EEX5533	Communication Theory & Systems	EEX5333	Communication Theory & Systems
EEX5534	Data Communications	EEX5434	Data Communications & Networking
EEX5535	Operating systems	EEX5335	Operating Systems
EEX5536	Computer Architecture	EEX5536	Computer Architecture
EEX5538	High voltage engineering and electrical machines	EEX5338	High voltage engineering
EEX5543	Physical & Opto Electronics	EEX6253	Physical & Opto Electronics
EEX5545	Database management systems	EEX3266	Information Systems and Data Management
		EEX4366	Data Modelling and Database Systems
EEX5547	Group work in software development	EEY4181	Group Project (Computer Engineering)
EEX5832	Power Systems II	EEX5352	Power Systems II
EEX5567	Software Testing and Quality Assurance	EEX5467	Software Testing and Quality Assurance
EEX6351	Digital Electronic systems	EEX5351	Digital Electronic Systems
EEX6534	Digital Signal Processing	EEX7434	Digital Signal Processing
EEX6535	Compiler Design	EEX6335	Compiler Design
EEX6536	Processor design	EEX7436	Processor Design
EEX6539	Wireless Communication	EEX6339	Wireless Communication
EEX6540	Knowledge engineering	EEX7340	AI Techniques & Agent Technology
		EEX7241	Neural Networks & Fuzzy Logic Applications
EEX6541	Field Theory	EEX6441	Electromagnetism& Wave Propagation
EEX6542	Modern Control Systems	EEX7342	Advanced Control Engineering
EEX6550	Analog Electronic Systems	EEX6450	Analog Electronic Systems & Instrumentation
EEX6543	Microwave Engineering & Applications	EEX7333	Microwave Devices & Antennas
EEX6832	Power systems planning	EEX7432	Power systems planning operations and control
EEY6D95	Individual project – Type B (Computer, Electrical, Electronic and Communication)	EEY7881	Engineering Research Project (Computer Engineering) or
		EEY7882	Engineering Research Project (Electrical Engineering) or
		EEY7883	Engineering Research Project (Electronics & Communication Engineering)
EEY6A96	Group project (Computer, Electrical, Electronic and Communication)	EEY7881	Engineering Research Project (Computer Engineering) or
		EEY7882	Engineering Research Project (Electrical Engineering) or
		EEY7883	Engineering Research Project (Electronics & Communication Engineering)

Course of the Interim Curriculum	Course of the Revised Curriculum
EEW3001 Industrial Training I (Electronics)	EEW4301 Industrial Training I (Electronics) or EEW4403 Industrial Training I (Electronics & Communications)
EEW4001 Industrial Training II (Software)	EEW5501 Industrial Training (Computer)
EEW4002 Industrial Training II (Power)	EEW4502 Industrial Training II (Electrical Power)
EEW4003 Industrial Training II (Communication)	EEW5403 Industrial Training II (Electronics & Communications)
EEW5001 Industrial Training II (Software-undergraduate)	EEW5501 Industrial Training (Computer)
EEW5002 Industrial Training II (Power-undergraduate)	EEW6502 Industrial Training II (Electrical Power-undergraduate)
EEW5003 Industrial Training II (Communication- undergraduate)	EEW5403 Industrial Training II (Electronics & Communications)

Courses offered by the Department of Mechanical Engineering

Course of the Interim Curriculum	Course of the Revised Curriculum
DMX3511 Communicating Engineering Information	DMX3305 Engineering Design Graphics
	AGM3203 Communication Skills
DMK3589 Computer Aided Drafting	None
DMX3512 Basic Thermo-Fluids	DMX3401 Fluid Mechanics and Thermodynamics
DMX3533 Workshop Technology	DMX3206 Introduction to Manufacturing processes
	DMX3203 Introduction to Engineering Materials
DMX3534 Engineering Drawing	DMX4201 Advanced Engineering Design Graphics
DMX3535 Thermo-Fluids	DMX3401 Fluid Mechanics and Thermodynamics
DMX3572 Applied Electronics	DMX3304 Applied Electronics
DMX3573 Modelling of Mechatronics Systems	None
DMX3574 Electronics, sensors and actuators	DMX3304 Applied Electronics
DMX3374 Principles of Design	None
DMK3370 C Programming	EEX3417 Software Development for Engineers
DMW3001 Workshop Practice	DMX3107 Workshop Practice
DMX4335 Production Management	None
DMX4342 Applied Automotive Electronics	DMX5209 Automotive Electronics
DMX4530 Production Technology	DMX4212 Manufacturing Engineering
DMX4532 Automobile Technology	DMX4208 Automobile Technology
DMX4533 Materials Engineering	DMX3203 Introduction to Engineering Materials
	DMX5204 Materials Engineering
DMX4543 Control Systems Engineering	DMX5403 Control Systems Engineering
DMX4571 Sensors and Actuators	DMX4409 Sensors
	DMX4410 Electrical & Pneumatic Machines
DMX4572 Vibration and Fault Diagnosis	DMX4204 Machine Dynamics
DMX4573 Mechatronics Product Design	DMX5316 Mechatronics Product Design

Course of the Interim Curriculum		Course of the Revised Curriculum	
DMX4575	Strength of Materials I	DMX4205	Strength of Materials I
DMX4576	Mechanics of Machines	DMX3302	Engineering Mechanics
		DMX4204	Machine Dynamics
DMX4835	Applied Mechanics and Strength of Materials	DMX3302	Engineering Mechanics
		DMX4204	Machine Dynamics
		DMX4205	Strength of Materials I
DMX5531	Applied Thermodynamics	DMX4202	Applied Thermodynamics I
		DMX5205	Applied Thermodynamics II
DMX5532	Strength of Materials II	DMX5302	Strength of Materials II
DMX5533	Dynamics of Mechanical Systems	DMX5201	Advanced Engineering Mechanics
DMX5570	Power Electronics & Motor Drives	DMX5313	Power Electronics & Motor Drives
DMX5571	Machine Vision	DMX5314	Machine Vision
DMX5572	Materials & Manufacturing Technology	DMX3203	Introduction to Engineering Materials
		DMX3206	Introduction to Manufacturing Processes
DMX5577	Machine Design	DMX4306	Design of Machine Elements
		DMX5307	Mechanical Engineering Design Project
DMM5836	Management for Engineers	AGM4307	Economics and Marketing for Engineers
		CVM5401	Accounting for Engineers
		DMM6601	Management for Engineers
DMK5501	Computer Aided Drafting and Modeling		None
DMX6570	Factory Automation	DMX7304	Factory Automation
DMX6571	Robotics	DMX7303	Control of Robotic Manipulators
DMX6573	Advanced Control Engineering	DMX5315	Artificial Intelligence
		DMX6306	Modern Control Systems
		DMX7306	Intelligent Control Systems
DMX6530	Mechanics of Materials		None
DMX6531	Automobile Engineering	DMX5208	Automobile Engineering
DMX6532	Vehicle Dynamics	DMX5210	Vehicle Dynamics and Design of Automotive components
DMX6534	Advanced Manufacturing Technology	DMX5212	Computer Aided Design and Manufacturing
DMX6535	Thermal Power Generation	DMX7301	Thermal Power Generation
DMX6536	New and Renewable Sources of Energy	DMX7305	Renewable Sources of Energy
DMX6540	Industrial Engineering	DMX6301	Industrial Engineering
DMX6578	Fluid Mechanics	DMX4203	Applied Fluid Dynamics I
		DMX5206	Applied Fluid Dynamics II
DMY6397	Project Identification and Literature Survey		None
DMY6A98	Individual Project Type A (Mechanical)	DMY7880	Engineering Research project (Mechanical)
DMY6D95	Individual Project Type B(Mechanical)	DMY7880	Engineering Research Project (Mechanical)

Course of the Interim Curriculum		Course of the Revised Curriculum	
DMY6A96	Group Project (Mechanical)	DMY7880	Engineering Research project (Mechanical)
DMY6D73	Mechatronic Product Design Project (Individual)	DMY7881	Engineering Research Project (Mechatronics)
DMY6A74	Mechatronic Product Design Project (Group)	DMY7881	Engineering Research Project (Mechatronics)
DMW4002	Industrial Training I(Mechanical)	DMW4801	Industrial Training (Mechanical -Diploma)
DMW5002	Industrial Training II (Mechanical)	DMW6801	Industrial Training (Mechanical - Undergraduate)
DMW4003	Industrial Training I(Mechatronics)	DMW4802	Industrial Training (Mechanical –Diploma)
DMW5003	Industrial Training II (Mechatronics)	DMW6802	Industrial Training (Mechanical – Undergraduate)

Courses offered by the Department of Textile and Apparel Technology

Course of the Interim Curriculum		Course of the Revised Curriculum	
TAX3531	Fibre science and technology	TAX3458	Fibre Science and Technology
TAX3532	Yarn manufacture I	TAX3459	Yarn Manufacture I
TAX3539	Garment analysis and sewing machinery	TAX3331	Garment Analysis and Sewing Machinery
TAI3536	Fabric structure and analysis	TAX5648	Fabric Structure and Analysis
TAI3541	Production planning and organization	TAX4438	Production Planning and Organization
TAX4533	Quality assurance for textiles and clothing	TAX4539	Quality Assurance for Textiles and Clothing
TAX4534	Textile colouration and finishing	TAX4571	Textile Colouration and Finishing
TAX4538	Garment manufacture	TAX4540	Garment Manufacture
TAX4560	Woven fabric technology	TAX4560	Woven Fabric Technology
TAM4539	Management studies	TAM3234	Basics of Human Resource Management
		TAM3535	Management Studies
TAX5532	Yarn and fabric mechanics	TAX7464	Yarn and Fabric Mechanics
TAX5534	Plant utilities	TAX5547	Plant Utilities
TAX5560	Pattern development	TAX4462	Pattern Development
TAX5562	Knitting technology	TAX4361	Knitting technology
TAM5861	Textile management and merchandising	AGM4307	Economics and Marketing for Engineers
		DMM6601	Management for Engineers
TAX6533	Technical textiles	TAX6454	Technical Textiles
TAM6335	Textile product engineering	TAX6263	Textile Product Engineering
TAX6539	Ergonomics	TAX6556	Ergonomics
TAX6560	Advanced woven fabric technology	TAX7369	Engineering Aspects of Weaving
		TAX6265	Advanced Weaving Preparation and Machinery
TAX6561	Yarn manufacture II	TAX6366	Yarn Manufacture II
TAX6362	Advanced colouration	TAX6367	Advanced Colouration

Course of the Interim Curriculum		Course of the Revised Curriculum	
TAX6563	Specialty fabrics	TAX7368	Specialty Fabrics
TAX6564	Nonwoven textiles	TAX5349	Nonwoven Textiles
TAY6D95	Individual project-Type B (Textile and Apparel)	TAY7880	Engineering Research Project (Textile and Clothing Engineering)
TAY6397	Project identification and literature survey	TAY7880	Engineering Research Project (Textile and Clothing Engineering)
TAY6A98	Individual project –Type A (Textile and Apparel)		
TAW4001	Industrial training (Apparel I)	TAW4401	Specific Training I (Apparel)
TAW5003	Industrial training (Yarn manufacture)	TAW5403	Specific Training II (Yarn Manufacture)
TAW5004	Industrial training (Weaving)	TAW5404	Specific Training II (Weaving)
TAW5005	Industrial training (Chemical processing)	TAW5405	Specific Training II (Chemical Processing)
TAW5006	Industrial training (Knitting)	TAW5406	Specific Training II (Knitting)

Courses offered by the Department of Mathematics and Philosophy of Engineering

Course of the Interim Curriculum		Course of the Revised Curriculum	
MHZ3531	Engineering mathematics 1A	MHZ3551	Engineering Mathematics I
MHZ3332	Engineering mathematics 1B	MHZ3552	Engineering Mathematics II
LLJ3360	Introduction to Laws of Sri Lanka	LLJ3245	Introduction to Laws of Sri Lanka
MHZ4530	Engineering Mathematics II	MHZ4553	Engineering Mathematics III
MHZ4340	Discrete Mathematics I	MHZ4256	Mathematics for Computing
MHZ5530	Engineering Mathematics III	MHZ5554	Engineering Mathematics IV
MHZ5340	Discrete Mathematics II	MHZ5355	Discrete Mathematics
MHJ5533	Technology, Society and Environment	MHJ5342	Technology, Society and Environment
MHJ5531	Nature of Science	MHJ5343	Nature of Science

Courses of Bachelor of Industrial Studies Honours Study Programme

Courses offered by the Department of Agricultural and Plantation Engineering

Course of the Interim Curriculum		Course of the Revised Curriculum	
AGI3534	Agricultural Biology I	AGI3551	Agricultural Biology
AGI3535	Land and Soil Tillage Management	AGI3450	Land and soil Tillage Management
AGI3536	Postharvest biology and Technology I	AGI4561	Postharvest Biology and Technology
AGX4539	Crop Production and Farming System	AGI3552	Crop Production Technologies
ADU3318	Bio Statistics	MHZ4357	Applied Statistics
AGZ3538	Mathematics for Agriculture	MHZ3458	Mathematics for Agriculture
AGJ4533	Rural Sociology	AGJ6381	Rural Sociology
AGX4530	Integrated Crop Protection	AGI3553	Plant Protection

Course of the Interim Curriculum		Course of the Revised Curriculum	
AGX4540	Plant and Soil Science	AGX4356	Soil Science
ADU4319	Design and Analysis of Experiments	AGZ5367	Experimental Design
AGX4531	Food and Nutrition	AGI4559	Food and Nutrition
AGX4537	Irrigation and Drainage Engineering	AGI4555	Irrigation and Drainage Engineering
AGM4535	Agricultural Marketing	AGM4363	Agricultural Marketing
AGI4538	Agricultural Biology II	AGI5471	Animal Biology
AGM4534	Agricultural Economics and Management	AGM5475	Economics and Management
AGX4532	Soil and Water Conservation	AGX6490	Soil and Water Conservation
AGX5543	Farm Power and Machinery	AGI5364	Farm Power and Machinery
AGX5532	Soil Plant and Water Relationship	AGX5565	Soil Plant and Water Relationship
AGX6535	Hydrology and water Resources	AGI6478	Hydrology and Water Resources
AGJ5540	Indigenous Knowledge of Herbal Products	AGJ5368	Indigenous Knowledge of Herbal Products
AGM5546	Agricultural Extension	AGM6379	Agricultural Extension
AGI5530	Fisheries and Aquaculture	AGI5572	Fisheries and Aquaculture
AGI5541	Agricultural Biotechnology	AGI5569	Molecular Biology and Biotechnology
AGI6238	Fruit Crop and Cut Flower Production	AGI5274	Fruit Crop and Cut Flower Production
AGX6534	Environmental Control In Farm Structures	AGI4362	Environmental Agriculture
AGY6D96	Individual Project (Agriculture)	AGY6880	Individual Project (Agriculture)
AGI6539	Animal husbandry and Production	AGI4460	Animal Husbandry and Production
AGI6232	Ground water resources management	AGX6283	Ground Water resources Management
AGI6237	Impact of Climate Change on Water resources	AGX6284	Impacts of Climate Change on Water Resources
AGX6536	Food Processing	AGI6582	Food Processing
AGI6550	Advanced Biotechnology	AGI6585	Applications in Biotechnology
AGW4002	Industrial Training I (Agriculture)	AGW4401	Specific Training I
AGW5002	Industrial Training II (Agriculture)	AGW5401	Specific Training II

Courses offered by the Department of Textile and Apparel Technology

Course of the Interim Curriculum		Course of the Revised Curriculum	
TAX3531	Fibre science and technology	TAX3458	Fibre Science and Technology
TAX3532	Yarn Manufacture I	TAX3459	Yarn Manufacture I
TAX3534	Textile preparation	TAX3370	Textile Preparation
TAX3537	Fibre to fabrics	TAX3530	Fibre to Fabrics
TAX3539	Garment analysis and sewing machinery	TAX3331	Garment Analysis and Sewing Machinery
TAI3536	Fabric structure and analysis	TAX5648	Fabric Structure and Analysis
TAI3538	Garment accessories	TAI3332	Garment Accessories
TAI3540	Pattern construction	TAI3533	Pattern Construction
TAI3541	Production planning and organisation	TAX4438	Production Planning and Organisation
TAI3342	Concept of fashion	TAI4371	Concept of Fashion
TAI3543	Concepts of fashion design	TAI4472	Concepts of Fashion Design
TAJ3346	Fashion illustration I	TAI3270	Fashion Illustration I
TAX4538	Garment manufacture	TAX4540	Garment Manufacture
TAI4545	Process of fashion design	TAI4474	Process of Fashion Design
TAX4532	Textile colouration	TAX5551	Textile Colouration

Course of the Interim Curriculum		Course of the Revised Curriculum	
TAX4533	Quality assurance for textiles and clothing	TAX4539	Quality Assurance for Textiles and Clothing
TAX4534	Textile colouration and finishing	TAX4571	Textile Colouration and Finishing
TAX4542	Knitted garment technology	TAX4441	Knitted Garment Technology
TAX4560	Woven fabric technology	TAX4560	Woven Fabric Technology
TAZ4541	Statistics for industrial studies	MHZ3576	Statistics for Industrial Studies
TAJ4547	Fashion Illustration II	TAI4373	Fashion Illustration II
TAM4539	Management studies	TAM3234	Basics of Human Resource Management
		TAM3535	Management Studies
TAX5532	Yarn and fabric mechanics	TAX7464	Yarn and Fabric Mechanics
TAX5534	Plant utilities	TAX5547	Plant Utilities
TAX6565	Fabric technology	TAX6455	Fabric Technology
TAX6564	Non woven textiles	TAX5349	Non Woven Textiles
TAX6537	Speciality fabrics	TAX7368	Speciality Fabrics
TAX5562	Knitting technology	TAX4361	Knitting Technology
TAI5538	Advanced pattern construction	TAI4442	Advanced Pattern Construction
TAI5339	Current topics in textiles and clothing	TAI5246	Current Topics in Textiles and Clothing
TAI5543	Principles of fashion design	TAI5552	Principles of Fashion Design
TAI5345	Foundation garments	TAI4243	Foundation Garments
TAI5346	Industrial garment washing and finishing	TAI4344	Industrial Garment Washing and Finishing
TAI5348	Design through draping	TAI5375	Design Through Draping

Course of the Interim Curriculum		Course of the Revised Curriculum	
TAI5354	Computer aided pattern drafting	TAI5376	Computer Aided Pattern Drafting
TAI5359	Computer aided fashion illustration	TAI5277	Computer Aided Fashion Illustration
TAI5563	Fashion design development	TAI5478	Fashion Design Development
TAZ5544	Quantitative techniques	MHZ5570	Quantitative Techniques
TAM5540	Apparel merchandising	TAM4445	Apparel Merchandising
TAJ5342	History & traditions of clothing	TAJ5353	History &Traditions of Clothing
TAX6533	Technical textiles	TAX6454	Technical Textiles
TAX6335	Textile product engineering	TAX6263	Textile Product Engineering
TAX6539	Ergonomics	TAX6556	Ergonomics
TAX6560	Advanced woven fabric technology	TAX7369	Engineering Aspects of Weaving
		TAX6265	Advanced Weaving Preparation and Machinery
TAX6561	Yarn manufacture II	TAX6366	Yarn Manufacture II
TAX6362	Advanced colouration	TAX6367	Advanced Colouration
TAX6563	Speciality fabrics	TAX7368	Speciality Fabrics
TAI6869	Visual presentation and exhibition design	TAI5579	Theoretical Aspects of Visual presentation and exhibition design
TAI6549	Fashion show production	TAI6580	Fashion Show Production
AM6540	Fashion marketing	TAM6457	Fashion Marketing
TAY6D95	Individual project-Type B (Textile and Apparel)	TAY6882 TAY6883	Research Project (Apparel Production) or Research Project (Textile Manufacture)
TAY6390	Inspiration of fashion design	TAY5284	Inspiration of Fashion Design

Course of the Interim Curriculum		Course of the Revised Curriculum	
TAY6A91	Creative fashion design	TAY6885	Creating and Exhibiting Fashion Products
TAY6397	Project identification and literature survey	TAY6882	Research Project (Apparel production) or
TAY6A98	Individual project –Type A (Textile and Apparel)	TAY6883	Research Project (Textile Manufacture)
TAW4001	Industrial training (Apparel I)	TAW4401	Specific Training (Apparel)
TAW4002	Industrial training (Fashion)	TAW4402	Specific Training I(Fashion)
TAW5001	Industrial training (Apparel II)	TAW5401	Specific Training II(Apparel)
TAW5002	Industrial training (Fashion design and product development)	TAW5402	Specific Training II (Fashion Design and Product Development)
TAW5003	Industrial training (Yarn manufacture)	TAW5403	Specific Training II (Yarn Manufacture)
TAW5004	Industrial training (Weaving)	TAW5404	Specific Training II(Weaving)
TAW5005	Industrial training (Chemical processing)	TAW5405	Specific Training II (Chemical Processing)
TAW5006	Industrial training (Knitting)	TAW5406	Specific Training II(Knitting)

Courses offered by the Department of Mathematics and Philosophy of Engineering

Course of the Interim Curriculum		Course of the Revised Curriculum	
LLJ3360	Introduction to Laws of Sri Lanka	LLJ3245	Introduction to Laws of Sri Lanka
MHJ5533	Technology, Society and Environment	MHJ5342	Technology, Society and Environment
MHJ5531	Nature of Science	MHJ5343	Nature of Science

Courses of Bachelor of Software Engineering Honours Study Programme

Course of the Interim Curriculum		Course of the Revised Curriculum	
EEX5563	Computer organization and operating systems	EEX5563	Computer organization and operating systems
EEI5361	Human computer interaction	EEI4361	User Experience Engineering
EEI5567	Software quality assurance and testing	EEI5467	Software Testing and Quality Assurance
EEI5566	Advanced database systems	EEI5466	Advanced Database Systems
EEI5565	Software construction	EEX6363	Compiler Construction
MHZ5360	Discrete mathematics II	MHZ5355	Discrete Mathematics
MHJ5563	Technology, society and environment	MHJ5342	Technology, Society and Environment
EEM5860	Management and professional issues	AGM4307	Economics and Marketing for Engineers
		CVM5401	Accounting for Engineers
		DMM6601	Management for Engineers
EEX6563	Software construction	EEX6363	Compiler Construction
EEI6560	Software project management	EEI6360	Software Project Management
EEI6567	Software architecture and design	EEI6567	Software architecture and design
EEI6565	Artificial intelligence techniques	EEX6340	AI Techniques and Agent Technology
		EEX6278	Neural Networks and Fuzzy Logic Applications
EEY6A89	Group Project (Software Engineering)	EEY6A89	Final Project – Software Engineering
		EEY4189	Software Design in Group
EEW4080	Specific Training I (Software Engineering)	EEW5811	Industrial Training - Software
EEW4081	Specific Training II (Software Engineering)		
EEW5011	Industrial Training Module (Software Engineering)	EEW5811	Industrial Training - Software

Prepared by the Faculty Registration Committee – 2021/2022

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Mr. G. Nandasena (Past Chairperson)	- Department of Mathematics & Philosophy of Engineering
Mr. P.K.J. de Mel	- Department of Agricultural & Plantation Engineering
Mr. D. I. Fernando	- Department of Civil Engineering
Mr. K. A.R.D. Gunaratne	- Department of Electrical & Computer Engineering
Dr. W. A. L. Niwanthi	- Department of Mathematics & Philosophy of Engineering
Mr. H. S. L Perera	- Department of Mechanical Engineering
Mrs. T.P.G.N.T. Alwis	- Department of Textile & Apparel Technology
Mr. Wijikumar Kularasasingam	- Assistant Registrar /Faculty of Engineering Technology