FACULTY OF ENGINEERING (FKJ)

STUDENT HANDBOOK SESSION 2020/2021

ELECTRONIC ENGINEERING (COMPUTER) HK20

STUDENT NAME:
MATRIC NO:
HEAD OF THE PROGRAMME:
ACADEMIC ADVISOR:

CONTENTS

Message from the Dean

Assalamualaikum wbt and my warmest greeting to all new students.

Welcome and Congratulations on your acceptance to the Universiti Malaysia Sabah (UMS). We are delighted that you joined our Faculty of Engineering (FKJ) family.

This handbook is prepared to provide brief information about the vision and mission of the faculty, program educational objectives (PEO), program outcomes (PO), course structure that outlined courses to be taken every semester, academic record, academic advisor record, club and extra-curricular records, professional development record and student achievement. The faculty implemented an outcome-based education (OBE) that focuses on student-centered learning outcomes. We take pride in our students and alumni that have demonstrated outstanding achievement and academic excellence. It is hoped that this handbook will be able to provide the required information on the faculty's administration and respective programs structure.

An academic advising system exists at the University of which the advisor is a lecturer assigned for the students. The advisor can guide on the matters related to studies, personal and financial problems that faced by the students. Students must meet their advisor at least twice per semester preferably at early semester when selecting the courses to be taken and at mid semester to review the ongoing academic performance and finalisation of course registration before the add and drop week. Students are required to record all meeting outcomes in this handbook for future reference.

It is also important for you to know that during your study period, you should abide by the rules of Malaysian law, Universities and University Colleges Act (AUKU), Statute of the University, and Rules and Regulations of the University. Take great responsibility in upholding the image of the University.

Lastly, on behalf of the Faculty, I would like to take this opportunity to wish you success in your academic journey and I hope that your study experience at Faculty of Engineering, UMS is rewarding.

Together we are stronger.

With warmest regards,

Associate Professor Ts. Dr. Ismail Saad
Dean
Faculty of Engineering
Universiti Malaysia Sabah

ACADEMIC ADVISOR COMMITTEE

ADVISORS

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Associate Professor Ts. Dr. Ismail Saad

Deputy Dean, (Academic and International)
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Acknowledgement

Thank you to those have contributed directly or indirectly towards preparing this handbook

INSTRUCTION TO STUDENTS

This handbook serves as a one-stop information for students mainly introducing the Vision and Mission of the Faculty, Program Educational Objectives (PEO), Program Outcomes (PO), Course Structure that outlined courses to be taken every semester, Academic Record, Mentor-Mentee Record, Club and Extra-Curricular Records, Professional Development Record and Student Achievement.

VISION, MISSION, PEO, PO

Students are required to read the Vision and Mission of the Faculty, as well as knowing the PEO and PO of the Programme.

COURSE STRUCTURE, ACADEMIC RECORD

The courses to be taken throughout the studies are given in Semesters and according to Year. Students must monitor and track the courses taken and record the results achieved every semester. Students must complete all the required courses before they can graduate.

MENTOR-MENTEE SYSTEM

A mentor-mentee system exists at the University of which the mentor is a lecturer assigned for the mentee (student). The mentor can advise on matters mainly related to studies and personal problems that is faced by the students. Students must meet their mentor at least two times per semester preferably; i) at early semester, when selecting the courses to be taken ii) at mid semester to review the ongoing performance and finalization of course registration. Meetings can be done individually or in group. All meeting outcomes must be recorded in this booklet.

EXTRA CURRICULAR ACTIVITIES, ACHIEVEMENT

Students are encouraged to record extra-curricular and club activities, professional development programs attended and their achievements in this booklet to build up their resume and portfolio.

A GLIMPSE OF FKJ

The Faculty of Engineering (FKJ) was established in 1996 to meet the increasing needs of skilled manpower of the country in the field of engineering. The goal for the establishment of the faculty is in line with the mission of UMS to become an innovative university. The faculty strives to foster and promote an environment that is conducive to teaching and learning and excellence particularly in engineering.

EDUCATION PHILOSOPHY

The ***vision*** of Universiti Malaysia Sabah is to strive to be an innovative university of global standing. To achieve this vision, the ***mission*** states that UMS strives to achieve academic excellence in various fields by gaining international recognition through learning and teaching, research and publication, social services and a balanced specialization of knowledge and personality development of students resulting in high productivity and quality in the context of the society and the nation. The philosophy of the Faculty of Engineering (FKJ) will therefore be in line with the university and the national education philosophy. All learning and teaching methods implemented in the Faculty are geared towards the academic excellence whilst grounded in practicality.

VISION OF FKJ

Faculty of Engineering (FKJ) aims to be a global centre for quality professional education.

MISSION OF FKJ

The Faculty of Engineering strives to foster and promote an environment conducive to teaching and learning and excellence and aims to be a centre of academic excellence internationally recognized by providing a balanced education that leads the nation's professional development.

HK20 PROGRAMME AIMS

The mission of the Electronic Engineering (Computer) HK20 Programme is to augment the liberal education expected of all UMS undergraduates and impart a basic understanding of Electronic Engineering (Computer) built on a foundation of physical science, mathematics, computing, and technology. Graduates of the programme are expected to possess knowledge of the fundamentals of Electronic Engineering (Computer) and of one specialty area. The graduates are expected to have the basic experimental, design, and communication skills to be prepared for continued study at the graduate level or for entry level positions of the highly competitive electronic and computer industry.

PROGRAMME EDUCATIONAL OBJECTIVES (PEO)

In consultation with its stakeholders, the Electronic Engineering (Computer) Programme at the Faculty of Engineering has set its programme educational objectives (PEO) as follows:

PEO 1: Professionalism

Graduates of the program have embarked on a path to become professional engineers in electronics or computer engineering.

- Register with a local and/or international professional body or association in their respective fields.

PEO 2: Continuous Professional Development

Graduates of the program will pursue their career growth and/or advanced degrees in electronics or computer engineering in general and especially Internet of Things (IoT).

- Pursuing postgraduate course of study OR attend on job training or short courses.
- Working in the electronics or computer engineering or related fields in a local or multinational company.

PEO 3: Societal and Environment Involvement

Graduate of the program will contribute to the societal and environmental development both nationally and internationally.

- Involvement in community services locally or internationally.
- Involved in knowledge or technology transfer to community locally or internationally.

The Program Objectives have been designed such that they are in-line with the University and Faculty's vision and mission which emphasize on professionalism (Faculty's Vision and Mission) recognized globally (University's Mission) with a balanced graduate that can contribute towards society (University's Vision and Faculty's Mission).

PROGRAMME OUTCOMES (PO)

In order to meet the obligations stated in the University and Faculty mission and vision statement, twelve Programme Outcomes (POs) are used. These Programme Outcomes are the specific skills and knowledge that our students are expected to have obtained at the time of their graduation from the programme as stipulated by the Engineering Accreditation Council (EAC), the delegated body by the Board of Engineers Malaysia (BEM) as the only recognized accrediting body for engineering degree programmes offered in Malaysia. Students graduating from the Electronic Engineering (Computer) Programme at Faculty of Engineering will be expected and prepared to exercise the skills and abilities listed below:

PO 1: Engineering Knowledge – Apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems;

PO2: Problem Analysis – Identify, formulate, research literature and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences;

PO3: Design/Development of Solution – Design solutions for complex engineering problems and design systems, components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations;

PO4: Investigation – Conduct investigation into complex problems using research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusions;

PO5: Modern Tool Usage – Create, select and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modelling, to complex engineering activities, with an understanding of the limitations;

PO6: The Engineer and Society – Apply reasoning informed by contextual knowledge to assess societal, health, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice;

PO7: Environment and Sustainability – Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development;

PO8: Ethics – Apply ethical principles and commit to professional ethics, responsibilities, and norms of engineering practice.

PO9: Individual and Teamwork – Function effectively as an individual, as a member or leader in diverse teams and in multi-disciplinary settings;

PO10: Communication – Communicate effectively on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions;

PO11: Project Management and Finance – Demonstrate knowledge and understanding of engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments;

PO12: Lifelong Learning – Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

MAPPING THE PEO TO PO

There is a direct relationship between the POs and the PEO. As shown in Table 1 below, every PO is related to one or more PEO, and all PEO are supported by one or more PO.

Table 1: Mapping the PEO to PO

Program Outcomes	Program Objectives		
	PEO1	PEO2	PEO3
Engineering Knowledge	X	X	
Problem Analysis	X	X	
Design/Development of Solutions	X	X	
Investigation	X	X	
Modern Tool Usage	X	X	
The Engineer and Society	X		X
Environment and Sustainability	X		X
Ethics	X	X	X
Individual and Teamwork	X	X	
Communication	X	X	
Project Management and Finance	X	X	
Life-long Learning	X	X	

MAPPING THE COURSES TO PO

Table 2 shows the big-picture planning of the PO. The table shows how courses in the programme are linked to the PO.

TABLE 2: COURSES MAPPING TO PROGRAMME OUTCOMES

CODE	COURSE NAME	CORE/ ELECTIVE	Program Outcome (PO)											
			1	2	3	4	5	6	7	8	9	10	11	12
KS04403	CALCULUS I	Core	√											
KS05503	CALCULUS II	Core	√											
KS06603	ENGINEERING PROGRAMMING	Core	√	√	√									
KS08803	ETHICS AND LAW ENGINEERS	Core						√	√	√				
KS09903	MANAGEMENT AND ACCOUNTING FOR ENGINEERS	Core											√	
KS10503	ELECTRIC CIRCUIT ANALYSIS	Core	√	√										
KS10701	ENGINEERING WORKSHOP	Core					√	√						
KS12003	ANALOGUE ELECTRONICS	Core		√										
KS14003	DISCRETE MATHEMATICS	Core	√											
KS16001	LABORATORY I	Core					√							
KS20503	LOGIC DESIGN	Core	√	√	√									
KS20703	DATA STRUCTURES AND ALGORITHMS	Core	√	√	√									
KS21303	DIFFERENTIAL EQUATIONS AND LINEAR ALGEBRA	Core	√											
KS21403	SOFTWARE ENGINEERING	Core	√		√									
KS21501	LABORATORY II	Core			√		√							
KS21803	PROBABILITY AND RANDOM PROCESSES	Core	√	√										
KS22402	ENGINEERING PHYSICS	Core	√											
KS22603	COMPUTATIONAL METHODS	Core		√	√									
KS22802	DESIGN PROJECT I	Core			√				√		√		√	
KS30005	INDUSTRIAL TRAINING	Core								√	√	√	√	
KS30403	CONTROL SYSTEMS	Core		√	√									
KS30903	MEASUREMENT AND INSTRUMENTATION	Core		√	√									
KS31303	SIGNALS AND SYSTEMS	Core	√											
KS31403	DIGITAL SIGNAL PROCESSING	Core	√		√									

CODE	COURSE NAME	CORE/ ELECTIVE	Program Outcome (PO)											
			1	2	3	4	5	6	7	8	9	10	11	12
KS31503	MICROELECTRONICS	Core	√	√										
KS31603	COMMUNICATION SYSTEMS ENGINEERING	Core	√	√										
KS32203	ELECTROMAGNETIC	Core	√											
KS32303	MICROPROCESSORS	Core	√	√	√									
KS32403	COMPUTER ARCHITECTURE	Core	√	√										
KS32503	EMBEDDED SYSTEMS	Core	√	√	√		√							
KS32602	DESIGN PROJECT III	Core			√				√		√		√	
KS32702	DESIGN PROJECT II	Core				√					√	√		√
KS40002	PROJECT I	Core				√				√		√	√	√
KS40004	PROJECT II	Core				√				√		√	√	√
KS40803	OPERATING SYSTEMS	Core	√											
KS41103	COMPUTER NETWORKS	Core	√	√										
KS41203	ANTENNA & PROPAGATION	Elective	√	√	√									
KS41403	COMPUTER SECURITY	Elective		√										
KS41603	PATTERN RECOGNITION	Elective		√	√									
KS41701	LABORATORY III	Core					√							
KS41803	INFORMATION THEORY AND CODING	Elective		√										
KS41903	WIRELESS COMMUNICATION	Elective	√	√	√									
KS42003	ADVANCED SIGNAL PROCESSING	Elective		√										
KS42903	POWER SYSTEMS FOR ELECTRONIC ENGINEERS	Core	√	√										
KS42803	IMAGE PROCESSING	Core	√	√										
KS42203	POWER ELECTRONICS	Elective		√										
KS42303	ELECTRICAL MACHINES AND DRIVES	Elective		√										
KS42403	RENEWABLE ENERGY	Elective		√										
KS42503	ARTIFICIAL INTELLIGENCE	Elective		√										
KS42603	DATABASE SYSTEMS	Elective		√										
KS42703	MOBILE APPLICATION DESIGN	Elective		√										

SYMBOL (√) : Mapped to the attainment of the Program Outcomes either as a Delivery (DV) or Contributing Course

ELECTRONIC ENGINEERING (COMPUTER) HK20 COURSE STRUCTURE FOR INTAKE 2020/2021

	YEAR 1		YEAR 2		YEAR 3		YEAR 4	
	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8
University Core (Promotion Of Knowledge) (8 Credit Hours)	**UW00202** Islam and Asian Civilization **(2 credit hours)**	**UW00102** Ethnic Relations **UCxxx02** (Choose 1 UC only) **(4 credit hours)**	**UW00302** Fundamentals of Entrepreneurial Acculturation **(2 credit hours)**					
University Core (Languages) (8 Credit Hours)	UB06002 English For Creative Communication (Bagi Pelajar MUET Band 3 (160-179),4,5 & 6) (2 Jam Kredit)	UB00402 Academic Reading and Writing (Bagi Pelajar MUET Band 3 (160-179),4,5 & 6) (2 Jam Kredit)	UB02002 English For Employment (Bagi Pelajar MUET Band 3(160-179),4,5 & 6) (2 Jam Kredit)	UB00502 English For Research Purposes (Bagi Pelajar MUET Band 3 (160-179),4,5 & 6) (2 Jam Kredit)				
	UB00202 Oral Communicaiton in English (Bagi Pelajar MUET Band 3 (140-159), 2 & 1) (2 Jam Kredit)	UB01002 Essentail Communication Skills (Bagi Pelajar MUET Band 3 (140-159), 2 & 1) (2 Jam Kredit)	UB00702 English for Occupational Purpose (Bagi Pelajar MUET Band 3 (140-159), 2 & 1) (2 Jam Kredit)	UB00302 Reading & Writing in English (Bagi Pelajar MUET Band 3 (140-159), 2 & 1) (2 Jam Kredit)				
University Core (Co-curriculum) (3 Credit Hours)	**Exxxx3** Co-Curriculum **(3 credit hours)**							
Program Core (107 Credit Hours)	**KS04403** Calculus I **KS06603** Engineering Programming **KS10503** Electric Circuit Analysis **KS10701** Engineering Workshop **(10 credit hours)**	**KS05503** Calculus II **KS12003** Analog Electronics **KS14003** Discrete Mathematics **KS16001** Laboratory I **(10 credit hours)**	**KS08803** Ethics and Law for Engineers **KS20503** Logic Design **KS20703** Data Structures and Algorithms **KS21303** Differential Equations and Linear Equation **KS21501** Laboratory II **(13 credit hours)**	**KS09903** Management and Accounting for Engineers **KS21403** Software Engineering **KS21803** Probability and Random Process **KS22042** Engineering Physics **KS22603** Computational Methods **KS22802** Design Project I **(16 credit hours)**	**KS30903** Measurement and Instrumentation **KS31303** Signals and Systems **KS31503** Microelectronics **KS32303** Microprocessors **KS32503** Embedded Systems **KS32702** Design Project II **(17 credit hours)**	**KS30005** Industrial Training **KS30403** Control Systems **KS31403** Digital Signal Processing **KS31603** Communication Systems Engineering **KS32203** Electromagnetics **KS32403** Computer Architecture **KS32602** Design Project III **(22 credit hours)**	**KS40002** Project I **KS41103** Computer Networks **KS41701** Laboratory III **KS42903** Power Systems for Electronic Engineers **(9 credit hours)**	**KS40004** Project II **KS40803** Operating Systems **KS42803** Image Processing **(10 credit hours)**
Program Core (Elective) (9 Credit Hours)							**KS4xx03** Elective 1 **(3 credit hours)**	**KS4xx03** Elective II **KS4xx03** Elective III **(6 credit Hours)**
TOTAL 135 CREDIT HOURS	**17**	**16**	**17**	**18**	**17**	**22**	**12**	**16**

KEJURUTERAAN ELEKTRONIK (KOMPUTER) HK20 STRUKTUR KURSUS UNTUK AMBILAN 2020/2021

	TAHUN 1		TAHUN 2		TAHUN 3		TAHUN 4	
	Semester 1	**Semester 2**	**Semester 3**	**Semester 4**	**Semester 5**	**Semester 6**	**Semester 7**	**Semester 8**
Teras Universiti (Penataraan Ilmu) (8 Jam Kredit)	**UW00202** Tamadun Islam dan Asia **(2 jam kredit)**	**UW00102** Hubungan Etnik **UCxxx02** (Pilih 1 kursus UC sahaja) **(4 jam kredit)**	**UW00302** Asas Pembudayaan Keusahawanan (APK) **(2 jam kredit)**					
Teras Universiti (Bahasa) (8 Jam Kredit)	UB06002 English For Creative Communication (Bagi Pelajar MUET Band 3 (160-179),4,5 & 6) (2 Jam Kredit)	UB00402 Academic Reading and Writing (Bagi Pelajar MUET Band 3 (160-179),4,5 & 6) (2 Jam Kredit)	UB02002 English For Employment (Bagi Pelajar MUET Band 3(160-179),4,5 & 6) (2 Jam Kredit)	UB00502 English For Research Purposes (Bagi Pelajar MUET Band 3 (160-179),4,5 & 6) (2 Jam Kredit)				
	UB00202 Oral Communicaiton in English (Bagi Pelajar MUET Band 3 (140-159), 2 & 1) (2 Jam Kredit)	UB01002 Essentail Communication Skills (Bagi Pelajar MUET Band 3 (140-159), 2 & 1) (2 Jam Kredit)	UB00702 English for Occupational Purpose (Bagi Pelajar MUET Band 3 (140-159), 2 & 1) (2 Jam Kredit)	UB00302 Reading & Writing in English (Bagi Pelajar MUET Band 3 (140-159), 2 & 1) (2 Jam Kredit)				
Teras Universiti (Ko-kurikulum) (3 Jam Kredit)	**Exxxx3** Ko-kurikulum **(3 jam kredit)**							
Teras Program (107 Jam Kredit)	**KS04403** Kalkulus I **KS06603** Pengaturcaraan Kejuruteraan **KS10503** Analisa Litar Elektrik **KS10701** Bengkel Kejuruteraan **(10 jam kredit)**	**KS05503** Kalkulus II **KS12003** Elektronik Analog **KS14003** Matematik Diskret **KS16001** Makmal I **(10 jam kredit)**	**KS08803** Etika dan Undang-Undang untuk Jurutera **KS20503** Rekabentuk Logik **KS20703** Struktur Data dan Algoritma **KS21303** Persamaan Pembezaan dan Algebra Linear **KS21501** Makmal II **(13 jam kredit)**	**KS09903** Pengurusan dan Perakaunan untuk Jurutera **KS21803** Taburan Rawak dan Kebarangkalian **KS22042** Fizik Kejuruteraan **KS21403** Kejuruteraan Perisian **KS22603** Keadah Komputasi **KS22802** Projek Rekabentuk I **(16 jam kredit)**	**KS30903** Pengukuran dan Peralatan **KS31303** Isyarat dan Sistem **KS31503** Mikroelektronik **KS32303** Mikropemproses **KS32503** Sistem Terbenam **KS32702** Projek Rekabentuk II **(17 jam kredit)**	**KS30005** Latihan Industri Komputer **KS30403** Sistem Kawalan **KS31403** Pemprosesan Isyarat Digital **KS31603** Kejuruteraan Sistem Komunikasi **KS32203** Elektromagnetik **KS32403** Keakitekturan **KS32602** Projek Rekabentuk III **(22 jam kredit)**	**KS40002** Projek I (00102) **KS41701** Makmal III **KS41103** Rangkaian Komputer **KS42903** Sistem Kuasa untuk Jurutera Elektronik **(9 jam kredit)**	**KS40004** Projek II **KS40803** Sistem Operasi **KS42803** Pemprosesan Imej **(10 jam kredit)**
Teras Program (Elektif) (9 Jam Kredit)							**KS4xx03** Elektif I **(3 jam kredit)**	**KS4xx03** Elektif II **KS4xx03** Elektif III **(6 jam kredit)**
JUMLAH (135 JAM KREDIT)	**17**	**16**	**17**	**18**	**17**	**22**	**12**	**16**

LIST OF ELECTIVE SUBJECTS
SENARAI SUBJEK –SUBJEK ELEKTIF

Area ***Bidang***	**Elective I** ***Elektif I***	**Elective II** ***Elektif II***	**Elective III** ***Elektif III***
Computer Application ***Aplikasi Komputer***	**KS42703** Mobile Application Design *Rekabentuk Aplikasi Mudah Alih*	**KS42603** Database Systems *Sistem Pangkalan Data*	**KS41403** Computer Security *Sekuriti Komputer*
Signal / Image Processing ***Pemprosesan Isyarat / Imej***	**KS42503** Artificial Intelligence *Kecerdikan Buatan*	**KS41603** Pattern Recognition *Pengenalpastian Corak*	**KS42003** Advanced Signal Processing *Pemprosesan Isyarat Lanjutan*
Communication ***Komunikasi***	**KS41903** Wireless Communication *Komunikasi Tanpa Wayar*	**KS41203** Antenna and Propagation *Perambatan dan Antena*	**KS41803** Information Theory and Coding *Teori Informasi dan Pengekodan*
Power ***Kuasa***	**KS42303** Machine and Drives *Mesin dan Pacuan*	**KS42203** Power Electronics *Elektronik Kuasa*	**KS42403** Renewable Energy *Tenaga Boleh Diperbaharui*

ACADEMIC RECORDS

CODE	COURSE	CREDIT HOURS	GRADE		
			ATTEMPT 1	ATTEMPT 2	ATTEMPT 3
UW00202	Islam and Asian Civilization	2			
UB00202/UB 00602	Oral Communication In English / Grammar In Context	2			
Exxxx03	Co-Curriculum	3			
KS04403	Calculus 1	3			
KS06603	Engineering Programming	3			
KS10503	Electric Circuit Analysis	3			
KS10701	Engineering Workshop	1			
UW00102	Ethnic Relations	2			
UCxxx02		2			
UB00102/UB 00402	Communicative English Grammar / Academic Reading and Writing	2			
KS05503	Calculus II	3			
KS12003	Analog Electronics	3			
KS14003	Discrete Mathematics	3			
KS16001	Laboratory I	1			
UW00302	Fundamental of Entrepreneurial	2			
UB00702/ UB02002	English For Occupational Purposes / English for Employment	2			
KS08803	Ethics and Law for Engineers	3			
KS20503	Logic Design	3			
KS20703	Data Structures and Algorithms	3			
KS21303	Differential Equations and Linear Equation	3			
KS21501	Laboratory II	1			
UB00302/ UB00502	Reading and Writing in English / English for Research Purposes	2			
KS09903	Management and Accounting for Engineers	3			
KS21403	Software Engineering	3			
KS21803	Probability and Random Process	3			
KS22042	Engineering Physics	2			
KS22603	Computational Methods	3			
KS22802	Design Project I	2			
KS31303	Signals and Systems	3			
KS31503	Microelectronics	3			
KS32303	Microprocessors	3			
KS32503	Embedded System	3			
KS30005	Industrial Training	5			
KS32702	Design Project II	2			
KS30903	Measurement and Instrumentation	3			
KS30403	Control Systems	3			
KS31403	Digital Signal Processing	3			

ACADEMIC RECORDS

CODE	COURSE	CREDIT HOURS	GRADE		
			ATTEMPT 1	ATTEMPT 2	ATTEMPT 3
KS32403	Computer Architecture	3			
KS32602	Design Project III	2			
KS40002	Project I	2			
KS40004	Project II	4			
KS40803	Operating system	3			
KS41103	Computer Networks	3			
KS41701	Laboratory III	1			
KS42803	Image Processing	3			
KS42903	Power Systems for Electronic Engineers	3			
	Elective 1				
KS41903	Wireless Communication	3			
KS42303	Machine and Drives	3			
KS42503	Artificial Intelligence	3			
KS42703	Mobile Application Design	3			
	Elective II				
KS41203	Antenna and Propagation	3			
KS41603	Pattern Recognition	3			
KS42203	Power Electronics	3			
KS42603	Database Systems	3			
	Elective III				
KS41803	Information Theory and Coding	3			
KS41403	Computer Security	3			
KS42003	Advanced Signal Processing	3			
KS42403	Renewable Energy	3			

MENTOR-MENTEE RECORDS

SEMESTER ONE: Student must meet their Academic Advisor (AA) at least TWO times per semester

GPA: _____ **CGPA: _____**

Date	Meeting Outcomes	AA Signature

SEMESTER TWO: Student must meet their Academic Advisor (AA) at least TWO times per semester

GPA: _____ **CGPA: _____**

Date	Meeting Outcomes	AA Signature

SEMESTER THREE: Student must meet their Academic Advisor (AA) at least TWO times per semester

GPA: _____ **CGPA: _____**

Date	Meeting Outcomes	AA Signature

SEMESTER FOUR: Student must meet their Academic Advisor (AA) at least TWO times per semester

GPA: _____ **CGPA: _____**

Date	Meeting Outcomes	AA Signature

SEMESTER FIVE: Student must meet their Academic Advisor (AA) at least TWO times per semester

GPA: _____ **CGPA:** _____

Date	Meeting Outcomes	AA Signature

SEMESTER SIX: Student must meet their Academic Advisor (AA) at least TWO times per semester

GPA: _____ **CGPA:** _____

Date	Meeting Outcomes	AA Signature

SEMESTER SEVEN: Student must meet their Academic Advisor (AA) at least TWO times per semester

GPA: _____ **CGPA: _____**

Date	Meeting Outcomes	AA Signature

SEMESTER EIGHT: Student must meet their Academic Advisor (AA) at least TWO times per semester

GPA: _____ **CGPA: _____**

Date	Meeting Outcomes	AA Signature

SEMESTER NINE: Student must meet their Academic Advisor (AA) at least TWO times per semester

GPA: _____ **CGPA: _____**

Date	Meeting Outcomes	AA Signature

SEMESTER TEN: Student must meet their Academic Advisor (AA) at least TWO times per semester

GPA: _____ **CGPA: _____**

Date	Meeting Outcomes	AA Signature

SEMESTER ELEVEN: Student must meet their Academic Advisor (AA) at least TWO times per semester

GPA: _____ **CGPA:** _____

Date	Meeting Outcomes	AA Signature

SEMESTER TWELVE: Student must meet their Academic Advisor (AA) at least TWO times per semester

GPA: _____ **CGPA:** _____

Date	Meeting Outcomes	AA Signature

CLUB AND EXTRA CURRICULAR ACTIVITIES RECORD

Any activities that contribute to the attainment of Program Outcomes related to communication, values, volunteering, teamwork and other soft skills.

Date	Activities	Organizer	Role

PROFESSIONAL DEVELOPMENT RECORDS

Any programs, talks or short courses that contribute to the attainment of Program Outcomes related to technical knowledge or professional skills.

Date	Industrial Talks / Short Courses	Organizer	AA Verification

AWARDS

Recognition or acknowledgment of their achievements

Date	Awards / Achievement	Received From	AA Verification