

**FACULTY OF  
ENGINEERING (FKJ)  
STUDENT HANDBOOK SESSION 2020/2021**

**MECHANICAL ENGINEERING (HK08)**

**STUDENT NAME:**

**MATRIC NO:**

**HEAD OF THE PROGRAMME:**

**ACADEMIC ADVISOR:**

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## 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**

*Dean, Faculty of Engineering*  
Associate Professor Ts. Dr. Ismail Saad

*Deputy Dean, (Academic and International)*  
Professor Ir. Dr. Zainal Zakaria

*Deputy Dean, (Research and Innovation)*  
Associate Professor Dr. Abu Zahrim Yaser

*Deputy Dean, (Student Affairs and Alumni)*  
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### **Acknowledgement**

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

## **INSTRUCTION TO STUDENTS**

This handbook provide prompt information and guideline for students on the Vision and Mission of the Faculty, Program Educational Objectives (PEO), Program Outcomes (PO), Outlined Course Structure for every semester, Academic Record, Academic Advisor Record, Club and Extra Curricular Records, Professional Development Record and Student Achievement.

## **VISION, MISSION, PEO, PO**

Students are required to know the Vision and Mission of the Faculty, as well as the list and description of the Programme Education Objectives (PEO) and programme Outcome (PO) of the Programme.

## **COURSE STRUCTURE, ACADEMIC RECORD**

The courses that need to be completed in 4 years studies are clustered in Semesters and Year as shown in Mechanical Engineering Programme Curriculum Structure. Students are required to ensure all courses are completed at the end of their studies.

## **ACADEMIC ADVISOR SYSTEM**

An Academic Advisor System exists at the University of which the Advisor is a lecturer assigned for the student. The Advisor can advise on matters mainly related to studies and also personal problems that are faced by the students. Students must meet their Advisor 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 finalisation 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 extracurricular and club activities, attended professional development programs 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.

## **MECHANICAL ENGINEERING (HK08) PROGRAMME AIMS**

The mission of the Mechanical Engineering (HK08) Programme is to provide an education that builds within undergraduates a basic understanding of mechanical engineering principles built on a foundation of physical science, mathematics, computing, and technology. Graduates of the programme are expected to possess knowledge of the fundamentals of mechanical engineering 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 their professional careers.

## **PROGRAMME EDUCATIONAL OBJECTIVES (PEO) of the MECHANICAL ENGINEERING PROGRAMME**

The programme Education Objectives (PEOs) for the Mechanical Engineering Programme are as described below:

### **PEO1: Professionalism**

- Graduates of the programme will establish themselves as practicing professionals in the field of mechanical engineering.

### **PEO2: Personal Advancement**

- Graduates of the programme will pursue their personal development through contemporary knowledge, research and involvement in professional bodies.

### **PEO3: Corporate and societal responsibility**

- Graduate of the programme will contribute to innovative and sustainable development to serve the needs of corporate, society and the nation as the whole.

## **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 achieve 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 Mechanical Engineering Programme at Faculty of Engineering will be expected and prepared to implement the skills and abilities as listed below:

**PO1: Engineering Knowledge** – An ability to apply knowledge on mathematics, science and mechanical engineering principle in solving engineering problems;

**PO2: Problem Analysis** – An ability to identify core problems, research relevant literature, formulate suitable methodology and perform necessary theoretical analysis for wide and complex engineering problems;

**PO3: Design/Development of Solution** – An ability to design and develop system, components, or processes that meet the requirements or solve specified engineering problems within constraints and degree of complexities;

**PO4: Investigation** – An ability to design, conduct, analysis and interpret experimental investigation for unstructured mechanical engineering problems that yield to valid conclusions;

**PO5: Modern Tool Usage** – An ability to use appropriate techniques, resources, and modern engineering tools necessary for engineering practice;

**PO6: The Engineer and Society** – An ability to apply contextual information for assessment of safety and health, legal, cultural and societal issues and the consequent responsibilities relevant to professional engineering practice;

**PO7: Environment and Sustainability** – An ability to provide knowledge-based assessment on the impact of engineering solutions in societal and environmental contexts and reasoning for the need for sustainable engineering solution;

**PO8: Ethics** – An ability to demonstrate awareness to professional ethics, responsibility and norms of engineering practice and adhere to ethical principles;

**PO9: Individual and Team Work** – An ability to work independently and participate effectively as a member or leader in diverse teams;

**PO10: Communication** – An ability to comprehend and write reports and technical documentations as well as make effective presentation on complex engineering;

**PO11: Project Management and Finance** – An ability to apply management principles and financial knowledge that lead to completion of project.

**PO12: Life Long Learning** – An ability to recognise the need for and engage in life-long learning in the context of technology change;



## MAPPING THE PEOs TO POs

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

**Table 1: Mapping the POs to PEOs**

New Standardized Program Outcomes (PO), 2012	PEO1 Professionalism	PEO2 Personal Advancement	PEO3 Corporate and Societal Responsibility
PO1 Engineering Knowledge	√		
PO2 Problem Analysis	√	√	
PO3 Design/Development of Solutions	√		√
PO4 Investigation	√		√
PO5 Modern Tool Usage	√	√	√
PO6 The Engineer and Society	√		√
PO7 Environment and Sustainability		√	√
PO8 Ethics	√		√
PO9 Individual and Team Work	√		
PO10 Communication	√	√	√
PO11 Project Management and Finance	√		√
PO12 Lifelong learning		√	√

## 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.



CODE	COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
UB00302	Reading And Writing In English												
UB00502	English For Research Purposes												
KM20203	Mechanics of Machines	√	√	√						√	√		
KM20603	Numerical Methods	√	√	√									
KM20801	Lab II				√		√			√	√		√
KM21003	Fluid Mechanics II		√	√	√	√							
KM21603	Applied Thermodynamics		√	√	√			√					
KM30303	Machines and Power	√	√	√									
KM30502	Engineering Statistics	√	√	√									
KM30903	Mechanical Design		√	√		√				√			
KM31101	Lab III				√		√			√	√		√
KM31503	Measurements and Instrumentation	√	√	√	√								
KM31703	Control Engineering	√	√	√	√					√			
KM30005	Industrial Training				√				√	√			√
KM30603	Mechanical Vibrations	√	√	√	√								√
KM31003	Integrated Design Project				√	√		√	√	√	√		
KM31401	Lab IV				√		√			√	√		√
KM32003	Finite Element Method	√	√	√									
KM32203	Computer Aided Engineering	√	√	√									
KM32403	Microprocessors and Electronics	√	√	√									
KM00303	Ethics and Law for Engineers						√	√	√		√		
KM40002	Project I		√		√	√			√		√	√	√
KM42703	Manufacturing Engineering and Technology	√		√		√		√					
KM42901	Lab V				√		√			√	√		√
KM4xx03	Elective I			√		√		√		√			
KM4xx03	Elective II			√		√		√		√			
KM00403	Management and Accounting for Engineers											√	
KM40004	Project II		√		√	√			√		√	√	√
KM44203	Heat Transfer		√	√	√	√					√		
KM4xx03	Elective III			√		√		√		√			
KM4xx03	Elective IV			√		√		√		√			

**SYMBOL**

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

### MECHANICAL ENGINEERING (HK08) 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
<b>University Core (Promotion Of Knowledge) ( 8 Credit Hours)</b>	<b>UW00202</b> Islam and Asian Civilisation  (2 credit hours)	<b>UW00102</b> Ethnic Relations <b>UCxxx02</b> (Please Choose 1 UC Course ) (4 credit hours)	<b>UW00302</b> Fundamentals of Entrepreneurial Acculturation (2 credit hours)					
<b>University Core (Languages) ( 8 Credit Hours)</b>	<b>UB00202</b> Oral Communication in English (For Student MUET Band 1 and 2)  (2 credit hours)	<b>UB00102</b> Communicative English Grammar (For Student MUET Band 1 and 2) (2 credit hours)	<b>UB00702</b> English For Occupational Purposes (For Student MUET Band 1 and 2)  (2 credit hours)	<b>UB00302</b> Reading And Writing In English (For Student MUET Band 1 and 2)  (2 credit hours)				
	<b>UB00602</b> Grammar In Context (For Student MUET Band 3,4,5 & 6)  (2 credit hours)	<b>UB00402</b> Academic Reading and Writing (For Student MUET Band 3,4,5 & 6) (2 credit hours)	<b>UB02002</b> English For Employment (For Student MUET Band 3,4,5 & 6) (2 credit hours)	<b>UB00502</b> English For Research Purposes (For Student MUET Band 3,4,5 & 6) (2 credit hours)				
<b>University Core (Co-curriculum) ( 3 Credit Hours)</b>	<b>EXXXX3</b> Co-Curriculum (3 credit hours)							
<b>Program Core ( 107 Credit Hours)</b>	<b>KM10303</b> Calculus I <b>KM10501</b> Engineering Workshop <b>KM10903</b> Statics <b>KM11103</b> Computer Aided Design  (10 credit hours)	<b>KM10403</b> Calculus II <b>KM10203</b> Engineering Materials <b>KM10603</b> Strength of Materials <b>KM11003</b> Dynamics  (12 credit hours)	<b>KM20303</b> Fluid Mechanics I <b>KM20503</b> Differential Equations <b>KM20701</b> Lab I <b>KM21102</b> Engineering Thermodynamics <b>KM21303</b> Engineering Programming <b>KM21502</b> Electrical Technology (14 credit hours)	<b>KM20203</b> Mechanics of Machines <b>KM20603</b> Numerical Methods <b>KM20801</b> Lab II <b>KM21003</b> Fluid Mechanics II <b>KM21603</b> Applied Thermodynamics (13 credit hours)	<b>KM30303</b> Machines and Power <b>KM30502</b> Engineering Statistics <b>KM30903</b> Mechanical Design <b>KM31101</b> Lab III <b>KM31503</b> Measurements and Instrumentation <b>KM31703</b> Control Engineering  (15 credit hours)	<b>KM30005</b> Industrial Training <b>KM30603</b> Mechanical Vibrations <b>KM31003</b> Integrated Design Project <b>KM31401</b> Lab IV <b>KM32003</b> Finite Element Method <b>KM32203</b> Computer Aided Engineering <b>KM32403</b> Microprocessors and Electronics (21 credit hours)	<b>KM00303</b> Ethics and Law for Engineers <b>KM40002</b> Project I <b>KM42703</b> Manufacturing Engineering and Technology <b>KM42901</b> Lab V (9 credit hours)	<b>KM00403</b> Management and Accounting for Engineers <b>KM40004</b> Project II <b>KM44203</b> Heat Transfer (10 credit hours)
<b>Program Core (Elective) (9 Credit Hours)</b>							<b>KM4xx03</b> Elective I <b>KM4xx03</b> Elective II (6 credit hours)	<b>KM4xx03</b> Elective III <b>KM4xx03</b> Elective IV (6 credit hours)
<b>TOTAL 135 CREDIT HOURS</b>	17	18	18	15	15	21	15	16

### KEJURUTERAAN MEKANIKAL (HK08) 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
<b>Teras Universiti (Penataran Ilmu) ( 8 Jam Kredit)</b>	<b>UW00202</b> Tamadun Islam dan Asia (TITAS) <b>(2 jam kredit)</b>	<b>UW00102</b> Hubungan Etnik UCxxx02 (Pilih 1 Kursus UC ) <b>(4 jam kredit)</b>	<b>UW00302</b> Asas Pembudayaan Keusahawanan (APK) <b>(2 jam kredit)</b>					
<b>Teras Universiti (Bahasa) ( 8 Jam Kredit)</b>	<b>UB00202</b> Oral Communication in English (Bagi Pelajar MUET Gelung 1 dan 2) <b>(2 jam kredit)</b>	<b>UB00102</b> Communicative English Grammar (Bagi Pelajar MUET Gelung 1 dan 2) <b>(2 jam kredit)</b>	<b>UB00702</b> English For Occupational Purposes (Bagi Pelajar MUET Gelung 1 dan 2) <b>(2 jam kredit)</b>	<b>UB00302</b> Reading And Writing In English (Bagi Pelajar MUET Gelung 1 dan 2) <b>(2 jam kredit)</b>				
	<b>UB00602</b> Grammar In Context (Bagi Pelajar MUET Gelung 3,4,5 & 6) <b>(2 jam kredit)</b>	<b>UB00402</b> Academic Reading and Writing (Bagi Pelajar MUET Gelung 3,4,5 & 6) <b>(2 jam kredit)</b>	<b>UB02002</b> English For Employment (Bagi Pelajar MUET Gelung 3,4,5 & 6) <b>(2 jam kredit)</b>	<b>UB00502</b> English For Research Purposes (Bagi Pelajar MUET Gelung 3,4,5 & 6) <b>(2 jam kredit)</b>				
<b>Teras Universiti (Ko-kurikulum) ( 3 Jam Kredit)</b>	<b>EXXXX3</b> Ko-Kurikulum <b>(3 jam kredit)</b>							
<b>Teras Program ( 107 Jam Kredit)</b>	<b>KM10303</b> Kalkulus I <b>KM10501</b> Bengkel Kejuruteraan <b>KM10903</b> Statik <b>KM11103</b> Rekabentuk Berbantuan Komputer <b>(10 jam kredit)</b>	<b>KM10403</b> Kalkulus II <b>KM10203</b> Bahan Kejuruteraan <b>KM10603</b> Kekuatan Bahan <b>KM11003</b> Dinamik <b>(12 jam kredit)</b>	<b>KM20303</b> Mekanik Bendalir I <b>KM20503</b> Persamaan Pembezaan <b>KM20701</b> Makmal I <b>KM21102</b> Termodinamik Kejuruteraan <b>KM21303</b> Pengaturcaraan Kejuruteraan <b>KM21502</b> Teknologi Elektrik <b>(14 jam kredit)</b>	<b>KM20203</b> Mekanik Mesin <b>KM20603</b> Kaedah Berangka <b>KM20801</b> Makmal II <b>KM21003</b> Mekanik Bendalir II <b>KM21603</b> Termodinamik Gunaan <b>(13 jam kredit)</b>	<b>KM30303</b> Mesin dan Kuasa <b>KM30502</b> Statistik Kejuruteraan <b>KM30903</b> Rekabentuk Mekanikal <b>KM31101</b> Makmal III <b>KM31503</b> Pengukuran dan Instrumentasi <b>KM31703</b> Kejuruteraan Kawalan <b>(15 jam kredit)</b>	<b>KM30005</b> Latihan Industri <b>KM30603</b> Getaran Mekanikal <b>KM31003</b> Projek Rekabentuk Bersepadu <b>KM31401</b> Makmal IV <b>KM32003</b> Kaedah Unsur Terhingga <b>KM32203</b> Kejuruteraan Berbantuan Komputer <b>KM32403</b> Mikropemproses dan Elektronik <b>(21 jam kredit)</b>	<b>KM00303</b> Etika dan Undang-undang Untuk Jurutera <b>KM40002</b> Projek I <b>KM42703</b> Kejuruteraan dan Teknologi Pembuatan <b>KM42901</b> Makmal V <b>(9 jam kredit)</b>	<b>KM00403</b> Pengurusan & Perakaunan Untuk Jurutera <b>KM40004</b> Projek II <b>KM44203</b> Pemindahan Haba <b>(10 jam kredit)</b>
	<b>Teras Program (Elektif) (9 Jam Kredit)</b>							<b>KM4xx03</b> Elective I <b>KM4xx03</b> Elective II <b>(6 credit hours)</b>
<b>JUMLAH 135 JAM KREDIT)</b>	<b>17</b>	<b>18</b>	<b>18</b>	<b>15</b>	<b>15</b>	<b>21</b>	<b>15</b>	<b>16</b>

**LIST OF ELECTIVE SUBJECTS**  
**(SENARAI KURSUS ELEKTIF)**

Elective Groups ( <i>Kumpulan Elektif</i> )	ELECTIVE I and II ( <i>ELEKTIF I dan II</i> )		ELECTIVE III and IV ( <i>ELEKTIF III dan IV</i> )	
<b>Manufacturing</b> <i>Pembuatan</i>	<b>KM42103</b> Industrial Automation <i>KM42103 Automasi Industri</i> <b>KM43903</b> Industrial Engineering <i>KM43903 Kejuruteraan Industri</i> <b>KM44103</b> Machining Processes <i>KM44103 Proses Pemesinan</i>	<b>KM44703</b> Sensor and Vision System <i>KM44703 Sistem Sensor dan Penglibatan</i> <b>KM44903</b> Mechatronics <i>KM44903 Mekanik</i>	<b>KM40603</b> Finite Differential Method <i>KM40603 Kaedah Pembezaan Terbilang</i> <b>KM43803</b> Computer Aided Manufacturing <i>KM43803 Pembuatan Berbantuan Komputer</i> <b>KM40403</b> Operational Research <i>KM40403 Penyelidikan Operasi</i>	<b>KM45003</b> Maintenance & Monitoring of Machines <i>KM45003 Penyelenggaraan &amp; Pemantauan Mesin</i> <b>KM44403</b> Advanced Manufacturing <i>KM44403 Pembuatan Lanjutan</i>
<b>Materials</b> <i>Bahan</i>	<b>KM41103</b> Tribology <i>KM41103 Tribologi</i> <b>KM44303</b> Composite Materials <i>KM44303 Bahan Komposit</i> <b>KM45103</b> Advanced Strength of Materials <i>KM45103 Kekuatan Bahan Lanjutan</i>		<b>KM42203</b> Surface Engineering <i>KM42203 Kejuruteraan Permukaan</i> <b>KM44003</b> Failure Mechanism <i>KM44003 Mekanisma Kegagalan</i>	<b>KM44603</b> Advanced Materials <i>KM44603 Bahan Lanjutan</i> <b>KM44803</b> Carbon Materials Technology <i>KM44803 Teknologi Bahan Karbon</i>
<b>Thermal Fluid</b> <i>Terma-Bendalir</i>	<b>KM44503</b> Renewable Energy <i>KM44503 Tenaga Boleh Diperbaharui</i>  <b>KM43703</b> Computational Fluid Dynamics <i>KM43703 Pengiraan Dinamik Bendalir</i>	<b>KM42303</b> Acoustic <i>KM42303 Akustik</i> <b>KM45303</b> Refrigeration and Air Conditioning <i>KM45303 Penyejukan &amp; Penyamanan Udara</i>	<b>KM41603</b> Numerical Method in Heat Engineering <i>KM41603 Kaedah Berangka dalam Kejuruteraan Haba</i> <b>KM41003</b> Internal Combustion Engines <i>KM41003 Enjin Pembakaran Dalaman</i>	<b>KM41803</b> Aerodynamics <i>KM41803 Aerodinamik</i>

## ACADEMIC RECORDS

CODE	COURSE	CREDI T HOURS	GRADE		
			ATTEMPT 1	ATTEMPT 2	ATTEMPT 3
UW00202	Islam and Asian Civilisation	2			
UB00202	Oral Communication in English	2			
UB00602	Grammar In Context	2			
EXXXX3	Co-Curriculum	3			
KM10303	Calculus I	2			
KM10501	Engineering Workshop	1			
KM10903	Statics	3			
KM11103	Computer Aided Design	3			
UW00102 / UCxxx02	Ethnic Relations	2			
UB00102	Communicative English Grammar	2			
UB00402	Academic Reading and Writing	2			
KM10403	Calculus II	3			
KM10203	Engineering Materials	3			
KM10603	Strength of Materials	3			
KM11003	Dynamics	3			
UW00302	Fundamentals of Entrepreneurial Acculturation	2			
UB00702	English For Occupational Purposes	2			
UB02002	English For Employment	2			
KM20303	Fluid Mechanics I	3			
KM20503	Differential Equations	3			
KM20701	Lab I	1			
KM21102	Engineering Thermodynamics	2			
KM21303	Engineering Programming	3			
KM21502	Electrical Technology	2			
UB00302	Reading And Writing In English	2			
UB00502	English For Research Purposes	2			
KM20203	Mechanics of Machines	3			
KM20603	Numerical Methods	3			
KM20801	Lab II	1			

KM21003	Fluid Mechanics II	3			
KM21603	Applied Thermodynamics	3			
KM30303	Machines and Power	3			
KM30502	Engineering Statistics	2			
KM30903	Mechanical Design	3			
KM31101	Lab III	1			
KM31503	Measurements and Instrumentation	3			
KM31703	Control Engineering	3			
KM30005	Industrial Training	5			
KM30603	Mechanical Vibrations	3			
KM31003	Integrated Design Project	3			
KM31401	Lab IV	1			
KM32003	Finite Element Method	3			
KM32203	Computer Aided Engineering	3			
KM32403	Microprocessors and Electronics	3			
KM00303	Ethics and Law for Engineers	3			
KM40002	Project I	2			
KM42703	Manufacturing Engineering and Technology	3			
KM42901	Lab V	1			
KM4xx03	Elective I	3			
KM4xx03	Elective II	3			
KM00403	Management and Accounting for Engineers	3			
KM40004	Project II	4			
KM44203	Heat Transfer	3			
KM4xx03	Elective III	3			
KM4xx03	Elective IV	3			



## ACADEMIC-ADVISOR 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







