BORANG PERMOHONAN PEMINDAHAN KREDIT

PUSAT SAINS MATEMATIK (PSM)

(BORANG INI PERLU DIHANTAR KEPADA PSM MINGGU KE-1 DAN KE-2 SEMESTER PERTAMA PENGAJIAN)

BAHAGIAN A: PERMOHONAN PELAJAR

NAMA PELAJAR : Amelia Natasha Binti Ahmad Zabidi

NO MATRIK : ZZ23123

NAMA PROGRAM : Sarjana Muda Kejuruteraan Mekanikal Kejituan Dengan Kepujian

FAKULTI : Fakulti Teknologi Kejuruteraan Kimia (FTKK)

NO. TELEFON : 012-3456789

EMAIL :natasha2345@gmail.com

Tuan/Puan,

Saya seperti nama diatas bercadang untuk memohon Pemindahan Kredit bagi kursus-kursus yang telah saya ambil terdahulu semasa mengikuti pengajian peringkat Diploma. Berikut maklumat pengajian terdahulu:

NAMA INSTITUSI : Politeknik Muadzam Shah

PROGRAM DIPLOMA : Diploma Kejuruteraa Mekanikal

Saya faham bahawa saya juga perlu membuat permohonan Pemindahan Kredit kepada fakulti pada semester pertama pengajian. Saya mengaku bahawa semua maklumat yang diberikan dalam borang ini dan lampiranya adalah betul dan benar. Pihak fakulti **berhak menolak** permohonan saya sekiranya tidak mematuhi prosedur yang ditetapkan oleh pihak fakulti.

Bersama-sama ini disertakan:

- [✓] Transkrip Keputusan Peperiksaan
- [✓] Silabus kursus-kursus yang setara
- [ ] Lain-lain dokumen (sila nyatakan) ……

.....
Tandatangan Pemohon

20 Feb 2024
.....
(Tarikh)

BAHAGIAN B: MAKLUMAT KURSUS UNTUK PEMINDAHAN KREDIT

Perhatian :

- Pemohon perlu mengisi ruangan ini dengan lengkap.dan hanya mengisi kursus yang ditawarkan di Pusat Sains Matematik sahaja. Kursus di PSM bermula dengan kod **BUMxxxx.**
- Pemohon perlu merujuk Struktur Program yang ditawarkan oleh pihak Fakulti.
- Pemohon perlu melampirkan **transkrip** dan **silibus kursus-kursus berkaitan.**

BIL	KURSUS FAKULTI/PUSAT		KURSUS SETARA YANG TELAH DIAMBIL DI PERINGKAT DIPLOMA				KEPUTUSAN
	KOD	KURSUS	KOD	KURSUS	JAM KREDIT	GRED	
1.	BUM1223	Calculus	DBM20023	Engineering Mathematics II	3	A	
2.	BUM2113	Applied Mathematics	DBM20013	Engineering Mathematics I	3	B+	
			DBM30033	Engineering Mathematics III	3	B+	
3.							

BAHAGIAN C: SEMAKAN DAN PENGESAHAN PIHAK FAKULTI

Adalah dengan ini disahkan bahawa permohonan pelajar tersebut telah disemak dan permohonan tertakluk kepada Peraturan Akademik yang telah ditetapkan. (* potong yang tidak berkenaan)

Ulasan pihak Fakulti :

_____

_____

…….
Tandatangan & Cop Dekan

……
Tarikh

……
Tandatangan & Cop Penyelaras Program

……
Tarikh

NOTA :
Sila serahkan salinan borang yang telah disahkan kepada :

1. Pemohon
2. Unit Pendaftaran & Rekod,
   Bahagian Pengurusan Akademik, UMP

POLITEKNIK SULTAN HAJI AHMAD SHAH
Semambu
25350 Kuantan
PAHANG DARUL MAKMUR
MALAYSIA

POLITEKNIK MALAYSIA
SULTAN HAJI AHMAD SHAH
Tel : 09-566 5300 Faks : 09-566 3104
Laman Web : www.polisas.edu.my
Facebook : politeknik.edu

ACADEMIC TRANSCRIPT

NAME	: AMELIA NATASHA BINTI AHMAD ZABIDI
REG.NO	: 02DKM19F1043
IC NO	: 010110-10-0045
PROGRAMME	: DIPLOMA IN MECHANICAL ENGINEERING : JUN 2019
INTAKE SESSION	: COMPLETED
STATUS	: 27 OKTOBER 2019
DATE	

FIRST SEMESTER (JUN 2019)

CODE	COURSE	CREDIT	GRADE	STATUS
DBM10013	ENGINEERING MATHEMATICS 1	3.0	B+	
DBS10012	ENGINEERING SCIENCE	2.0	C+	
DJJ10013	ENGINEERING DRAWING	3.0	A	
DJJ10022	MECHANICAL WORKSHOP PRACTICE 1	2.0	B	
DJJ10033	WORKSHOP TECHNOLOGY	3.0	C+	
DUE10012	COMMUNICATIVE ENGLISH 1	2.0	A-	
DUW10022	OCCUPATIONAL SAFETY AND HEALTH FOR ENGINEERING	2.0	C	
MPU24011	CO-CURRICULUM (SPORT)	1.0	A	

Grade Point Average (GPA) : 3.05
Cumulative Grade Point Average (CGPA) : 3.05
Credit Earned : 16.0
Total Credits : 16.0 / 94.0

SECOND SEMESTER (DECEMBER 2019)

CODE	COURSE	CREDIT	GRADE	STATUS
DBM20023	ENGINEERING MATHEMATICS 2	3.0	A	
DJJ20042	MECHANICAL WORKSHOP PRACTICE 2	2.0	A-	
DJJ20053	ELECTRICAL TECHNOLOGY	3.0	A-	
DJJ20063	THERMODYNAMICS	3.0	B	
DJJ20073	FLUID MECHANICS	3.0	A-	
MPU23052	SAINS TEKNOLOGI DAN KEJURUTERAAN DALAM ISLAM	2.0	A-	
MPU24021	CO-CURRICULUM (CLUB)	1.0	A	

Grade Point Average (GPA) : 3.63
Cumulative Grade Point Average (CGPA) : 3.33
Credit Earned : 17.0
Total Credits : 35.0 / 94.0

THIRD SEMESTER (JUNE 2020)

CODE	COURSE	CREDIT	GRADE	STATUS
DBM30033	ENGINEERING MATHEMATICS 3	3.0	B+	
DJJ30093	ENGINEERING MECHANICS	3.0	A	
DJJ30103	STRENGTH OF MATERIALS	3.0	A	
DJJ30113	MATERIAL SCIENCE AND ENGINEERING	3.0	C	
DJJ40132	ENGINEERING AND SOCIETY	2.0	A+	
DUE30022	COMMUNICATIVE ENGLISH 2	2.0	B+	
MPU22012	ENTREPRENEURSHIP	2.0	A	

Grade Point Average (GPA) : 3.48
Cumulative Grade Point Average (CGPA) : 3.38
Credit Earned : 16.0
Total Credits : 63.0 / 94.0

FOURTH SEMESTER (DECEMBER 2020)

CODE	COURSE	CREDIT	GRADE	STATUS
DJJ30122	COMPUTER AIDED DESIGN	2.0	B+	
DJJ40153	PNEUMATIC AND HYDRAULICS	3.0	C	
DJJ40163	MECHANICS OF MACHINES	3.0	B+	
DJJ40182	PROJECT 1	2.0	A-	
DJJ50203	TROUBLESHOOTING AND MAINTENANCE FOR MECHANICAL COMPONENTS	3.0	B+	

Grade Point Average (GPA) : 3.06
Cumulative Grade Point Average (CGPA) : 3.32
Credit Earned : 13.0
Total Credits : 86.0 / 94.0

SHORT SEMESTER 2021

CODE	COURSE	CREDIT	GRADE	STATUS
DJF51082	QUALITY CONTROL	2.0	B+	
DJJ50212	MAINTENANCE ENGINEERING AND MANAGEMENT	2.0	B+	

Grade Point Average (GPA) : 3.33
Cumulative Grade Point Average (CGPA) : 3.32
Credit Earned : 4.0
Total Credits : 70.0 / 94.0

FIFTH SEMESTER (1 : 2021/2022)

CODE	COURSE	CREDIT	GRADE	STATUS
DJJ30082	MECHANICAL WORKSHOP PRACTICE 3	2.0	B+	
DJJ40142	MECHANICAL WORKSHOP PRACTICE 4	2.0	A	
DJJ40173	ENGINEERING DESIGN	3.0	B	
DJJ50193	PROJECT 2	3.0	C+	
DUE50032	COMMUNICATIVE ENGLISH 3	2.0	B	
MPU21032	PENGHAYATAN ETIKA DAN PERADABAN	2.0	B	

Grade Point Average (GPA) : 3.05
Cumulative Grade Point Average (CGPA) : 3.28
Credit Earned : 14.0
Total Credits : 84.0 / 94.0

SIXTH SEMESTER (1 : 2021/2022) - ENGINEERING INDUSTRIAL TRAINING

Company : KESM INDUSTRIES BERHAD, LOT 4, JALAN SS 8/4, SUNGEI WAY FREE INDUSTRIAL ZONE, 47300, PETALING JAYA, SELANGOR, DARUL EHSAN.
Duration : 7 MAC 2022 - 22 JULAI 2022.
Remarks : EXCELLENT

Cumulative Grade Point Average (CGPA) : 3.28
Credit Earned : 10.0
Total Credits : 94.0 / 94.0

End of results

NO ALTERATION OR ADDITION IS HEREBY AUTHORIZED.
THIS TRANSCRIPT WAS ISSUED BY THE EXAMINATION OFFICER.

CERTIFIED BY,

(FAZLIN BINTI MOHD HAIRI)
Head of Examination Unit
p.p Director
Politeknik Sultan Haji Ahmad Shah

POLITEKNIK SULTAN HAJI AHMAD SHAH
POLITEKNIK MALAYSIA
KUANTAN

ABBREVIATION

[CE] - COURSE EXEMPTION
[CTV] - CREDIT TRANSFER VERTICAL
[CTH] - CREDIT TRANSFER HORIZONTAL
[RIG] - REPEAT TO IMPROVE GRADE
[C1] - FAILED ON 1ST ATTEMPT
[C2] - FAILED ON 2ND ATTEMPT
[CA] - COMPULSARY ATTEND

COURSE INFORMATION	
POLITEKNIK MALAYSIA	**DEPARTMENT OF POLYTECHNIC AND COMMUNITY COLLEGE EDUCATION, MINISTRY OF EDUCATION MALAYSIA**

1	**NAME OF COURSE**	: ENGINEERING MATHEMATICS 1
	COURSE CODE	: DBM10013
2	**SYNOPSIS:** ENGINEERING MATHEMATICS 1 exposes students to the basic algebra including resolve partial fractions. This course also covers the concept of trigonometry and the method to solve trigonometry problems by using basic identities, compound angle and double angle formulae. Students will be introduced to the theory of complex number and concept of vector and scalar. Students will explore advanced matrices involving 3x3 matrix.	
3	**NAME(S) OF ACADEMIC STAFF**	:
4	**SEMESTER AND YEAR OFFERED**	: Semester 1 / Year 1
5	**CREDIT VALUE**	: 3
6	**PREREQUISITE/CO-REQUISITE (IF ANY)**	: None
7	**COURSE LEARNING OUTCOMES (CLO):** Upon completion of this course, students should be able to: CLO1 : Use mathematical statement to describe relationship between various physical phenomena. (C3 , CLS 1) CLO2 : Show mathematical solutions using the appropriate techniques in mathematics. (C3 , CLS 3c) CLO3 : Use mathematical expression in describing real engineering problems precisely, concisely and logically. (A3 , CLS 3b)	

8	**TRANSFERABLE SKILLS:**

a. Information Management and Lifelong Learning Skills
b. Social Skills, Teamwork Skills and Responsibilities
c. Communication Skills
d. Problem Solving and Scientific Skills
e. Leadership

9 DISTRIBUTION OF STUDENT LEARNING TIME (SLT):

Course Content Outline	CLO*	Teaching and Learning Activities						
		Guided Learning (F2F)				Guided Learning (NF2F) eg: e-Learning	Independent Learning (NF2F)	SLT
		L	P	T	O			
1.0 BASIC ALGEBRA								
1.1 Simplify basic algebra	CLO1	1	0	0.5	0	0	1.6	3.1
1.1 Simplify basic algebra	CLO2	1	0	0.5	0	0	1.6	3.1
1.2 Solve quadratic equations	CLO1	0.5	0	0.5	0	0	0.975	1.975
1.2 Solve quadratic equations	CLO2	0.5	0	1	0	0	1.325	2.825
1.3 Show procedures to find partial fractions	CLO1	0.5	0	0.5	0	0	0.975	1.975
1.3 Show procedures to find partial fractions	CLO2	2.5	0	1	0	0	3.825	7.325
2.0 TRIGONOMETRY								
2.1 Solve the fundamental of trigonometric functions	CLO1	0.5	0	0.5	0	0	0.975	1.975
2.1 Solve the fundamental of trigonometric functions	CLO2	0.5	0	1	0	0	1.325	2.825
2.1 Solve the fundamental of trigonometric functions	CLO3	1	0	0.5	0	0	1.6	3.1
2.2 Solve trigonometry equations and identities	CLO1	1	0	0.5	0	0	1.6	3.1
2.2 Solve trigonometry equations and identities	CLO2	0.5	0	0.5	0	0	0.975	1.975
2.2 Solve trigonometry equations and identities	CLO3	1	0	0.5	0	0	1.6	3.1
2.3 Apply sine and cosine rules	CLO1	1	0	1	0	0	1.95	3.95
2.3 Apply sine and cosine rules	CLO2	0.5	0	0.5	0	0	0.975	1.975
3.0 COMPLEX NUMBER								
3.1 Explain the concept of a complex number	CLO1	0.5	0	0.5	0	0	0.975	1.975
3.1 Explain the concept of a complex number	CLO2	0.5	0	0.5	0	0	0.975	1.975
3.2 Demonstrate the operation of complex number	CLO1	0.5	0	0.5	0	0	0.975	1.975
3.2 Demonstrate the operation of complex number	CLO2	0.5	0	0.5	0	0	0.975	1.975
3.3 Demonstrate graphical representation of a complex number through Argand Diagram	CLO1	0.5	0	0.5	0	0	0.975	1.975
3.3 Demonstrate graphical representation of a complex number through Argand Diagram	CLO2	1	0	0.5	0	0	1.6	3.1
3.4 Write complex number in other form	CLO1	0.5	0	0.5	0	0	0.975	1.975
3.4 Write complex number in other form	CLO2	1	0	0.5	0	0	1.6	3.1

4.0 MATRICES								
4.1 Construct matrix	CLO1	0.5	0	0.5	0	0	0.975	1.975
4.1 Construct matrix	CLO2	0.5	0	0.5	0	0	0.975	1.975
4.2 Demonstrate the operation of matrices	CLO1	0.5	0	0.5	0	0	0.975	1.975
4.2 Demonstrate the operation of matrices	CLO2	1	0	1	0	0	1.95	3.95
4.3 Demonstrate simultaneous linear equations	CLO1	1	0	1	0	0	1.95	3.95
4.3 Demonstrate simultaneous linear equations	CLO2	1	0	1	0	0	1.95	3.95
5.0 VECTOR AND SCALAR								
5.1 Express vector	CLO1	0.5	0	0.5	0	0	0.975	1.975
5.1 Express vector	CLO2	0.5	0	0.5	0	0	0.975	1.975
5.2 Demonstrate the operations of vectors	CLO1	0.5	0	0.5	0	0	0.975	1.975
5.2 Demonstrate the operations of vectors	CLO2	0.5	0	1	0	0	1.325	2.825
5.3 Apply scalar (dot) product of two vectors	CLO2	0.5	0	0.5	0	0	0.975	1.975
5.3 Apply scalar (dot) product of two vectors	CLO3	1	0	1	0	0	1.95	3.95
5.4 Apply vectors (cross) product of two vectors	CLO2	0.5	0	0.5	0	0	0.975	1.975
5.4 Apply vectors (cross) product of two vectors	CLO3	1	0	1	0	0	1.95	3.95

TOTAL: 98.73

CONTINUOUS ASSESSMENT	PERCENTAGE (%)	F2F	NF2F	SLT
Quiz	10	0.5	0	0.5
Test	15	1	0	1
Presentation	15	2	4	6
End of Chapter	20	3	6	9

TOTAL: 16.50

FINAL ASSESSMENT	PERCENTAGE (%)	F2F	NF2F	SLT
Final Exam	40	2	4	6

TOTAL: 6.00

GRAND TOTAL SLT: 121.2

****Please tick (√) if this course is Industrial Training/ Clinical Placement/ Practicum/ WBL using 2-weeks, 1 credit formula**

L = Lecture, T = Tutorial, P= Practical, O= Others, F2F=Face to Face, NF2F=Non Face to Face

*Indicate the CLO based on the CLO's numbering in Item 8.

10	**SPECIAL REQUIREMENT OR RESOURCES TO DELIVER THE COURSE:** None
11	**REFERENCES:** **Main reference supporting the course** Bird, J. (2017). *Higher Engineering Mathematics. (8th Edition).* New York, NY: Routledge. **Additional references supporting the course** Croft A. and Davison R. (2019). *Mathematics for Engineers (5th Edition).* London, UK: Pearson. Larson, R. and Edwards, B. (2018). *Calculus. (11th Edition).* Boston, MA. Cencage Learning. P. M. Cohn (2017). *Algebraic Numbers and Algebraic Functions*. Taylor & Francis Ltd. Zuraini Ibrahim, Suria Masnin, Fatin Hamimah, Mohamed Salleh, Myzatul Mansor dan Baharudin Azit (2018). *Engineering Mathematics 2.* Shah Alam: Oxford Fajar Sdn. Bhd.
12	**OTHER ADDITIONAL INFORMATION:** None

COURSE INFORMATION	
POLITEKNIK MALAYSIA	**DEPARTMENT OF POLYTECHNIC AND COMMUNITY COLLEGE EDUCATION, MINISTRY OF EDUCATION MALAYSIA**

1	**NAME OF COURSE**	: ENGINEERING MATHEMATICS 2
	COURSE CODE	: DBM20023
2	**SYNOPSIS:** ENGINEERING MATHEMATICS 2 exposes students to the basic laws of indices and logarithms. This course introduces the basic rules of differentiation concepts to solve problems that relates maximum, minimum and calculate the rates of changes. This course discusses integration concepts in order to strengthen student's knowledge for solving area and volume bounded region problems. In addition, students will learn application of both techniques of differentiation and integration.	
3	**NAME(S) OF ACADEMIC STAFF**	:
4	**SEMESTER AND YEAR OFFERED**	: Semester 2 / Year 1
5	**CREDIT VALUE**	: 3
6	**PREREQUISITE**	: DBM10013
7	**COURSE LEARNING OUTCOMES (CLO):** Upon completion of this course, students should be able to: CLO1 : Use algebra and calculus knowledge to describe relationship between various physical phenomena. (C3 , CLS 1) CLO2 : Solve the mathematical problems by using appropriate and relevant fundamental calculus techniques. (C3 , CLS 3c) CLO3 : Use mathematical language to express mathematical ideas and arguments precisely, concisely and logically in calculus. (A3 , CLS 3b)	

8	**TRANSFERABLE SKILLS:** a. Information Management and Lifelong Learning b. Social Skills, Teamwork Skills and Responsibilities c. Communication Skills d. Problem Solving and Scientific Skills e. Leadership

9 DISTRIBUTION OF STUDENT LEARNING TIME (SLT):

Course Content Outline	CLO*	Teaching and Learning Activities						
		Guided Learning (F2F)				Guided Learning (NF2F) eg: e-Learning	Independent Learning (NF2F)	SLT
		L	P	T	O			
1.0 Indices And Logarithms								
1.1 Explain laws of indices	CLO1	0.75	0	1	0	0	1.55	3.3
1.1 Explain laws of indices	CLO2	1.25	0	0.5	0	0	1.65	3.4
1.2 Apply laws of logarithms	CLO1	0.75	0	1	0	0	1.55	3.3
1.2 Apply laws of logarithms	CLO2	1.25	0	0.5	0	0	1.65	3.4
2.0 Differentiation								
2.1 Describe rules of differentiation	CLO1	2	0	1	0	0	2.8	5.8
2.2 Differentiate trigonometric, logarithmic and exponential functions	CLO2	1.5	0	1.5	0	0	2.7	5.7
2.3 Apply second order differentiation	CLO1	1	0	0.5	0	0	1.4	2.9
2.4 Discuss the application of differentiation	CLO2	1.5	0	1	0	0	2.3	4.8
2.4 Discuss the application of differentiation	CLO3	1.5	0	1	0	0	2.3	4.8
2.5 Solve parametric equation	CLO1	1	0	1	0	0	1.8	3.8
2.6 Apply implicit differentiation	CLO1	1	0	1	0	0	1.8	3.8
2.7 Construct partial differentiation	CLO1	1	0	1	0	0	1.8	3.8
2.8 Apply the technique of total differentiation	CLO2	1	0	1	0	0	1.8	3.8
3.0 Integration								
3.1 Explain indefinite integrals	CLO1	1	0	1	0	0	1.8	3.8
3.2 Compute definite integrals	CLO1	1	0	1	0	0	1.8	3.8
3.3 Apply integrals of trigonometric function	CLO1	0.5	0	0.5	0	0	0.9	1.9
3.3 Apply integrals of trigonometric function	CLO2	1	0	0.5	0	0	1.4	2.9
3.4 Apply integrals of reciprocal function	CLO1	0.5	0	0.5	0	0	0.9	1.9
3.4 Apply integrals of reciprocal function	CLO2	1	0	1	0	0	1.8	3.8
3.5 Solve integrals of exponential function	CLO1	0.5	0	0.5	0	0	0.9	1.9
3.5 Solve integrals of exponential function	CLO2	0.5	0	0.5	0	0	0.9	1.9
3.6 Solve integration by part	CLO1	1	0	1	0	0	1.8	3.8
3.6 Solve integration by part	CLO2	1	0	1	0	0	1.8	3.8
3.7 Solve integration of partial fraction	CLO1	1	0	0.5	0	0	1.4	2.9
3.8 Apply the techniques of integration	CLO1	1	0	1	0	0	1.8	3.8
3.8 Apply the techniques of integration	CLO3	2	0	1	0	0	2.8	5.8

TOTAL: 94.60

CONTINUOUS ASSESSMENT	PERCENTAGE (%)	F2F	NF2F	SLT
Quiz	10	0.5	0	0.5
Test	15	1	0	1
End Of Chapter	20	3	9	12
Presentation	15	2	4	6

TOTAL: 19.50

FINAL ASSESSMENT	PERCENTAGE (%)	F2F	NF2F	SLT
Final Exam	40	2	4	6

TOTAL: 6.00

GRAND TOTAL SLT: 120.1

****Please tick (√) if this course is Industrial Training/ Clinical Placement/ Practicum/ WBL using 2-weeks, 1 credit formula** ☐

L = Lecture, T = Tutorial, P= Practical, O= Others, F2F=Face to Face, NF2F=Non Face to Face

*Indicate the CLO based on the CLO's numbering in Item 8.

10	**SPECIAL REQUIREMENT OR RESOURCES TO DELIVER THE COURSE:** None
11	**REFERENCES:** **Main reference supporting the course** Bird, J. (2017). *Higher Engineering Mathematics. (8th Edition)*. New York, NY: Routledge. **Additional references supporting the course** Croft, A. and Davison, R. (2019). *Mathematics for Engineers. (5th Edition)*. Boston, MA: Pearson Education. Larson, R. and Edwards, B. (2018). *Calculus. (11th Edition)*. Boston, MA. Cencage Learning.
12	**OTHER ADDITIONAL INFORMATION:** None