



SKMM 2713 (MANUFACTURING PROCESSES)
SEMESTER I - 20192020

INDIVIDUAL ASSIGNMENT - POLYMER (5.0%)

1.0 EACH STUDENT WORKS INDIVIDUALLY ON ONE GIVEN TOPIC:

- (a) Search relevant references and study the given topic
 - (b) Prepare a power point presentation of about 10-15 slides (can be more or less according to your preference)
 - (c) List the reference and include in the presentation slides
 - (d) You are encouraged to include illustration/video/animation in the slides. Please assume only video is usable (no audio during presentation of the slides)
 - (e) Scoring will be based on resourcefulness and presentation style
 - (f) Intended audience: second year undergraduate students
 - (g) Submit the softcopy AND hardcopy by **26/10/2019**
- Note: scope and content of some titles may overlap. You should carefully decide on the coverage (depth and breadth) of topics/content discussed for your title.

You should upload your softcopy to *turnitin.com* and make sure your it is below 40% of similarity index. Assignment **EXCEEDED** 40% of similarity index will be given 0 marks due to plagiarism.

How to submit to turnitin.com?

- i) You should login with **Turnitin Class ID: 22014133** with enrolment key: **12345**. Choose **SKMM2713-SEM1-19-20 (POLYMER ASSIGNMENT)**
- ii) Make sure to upload your report with **filename** as formatted shown below:
 - For example, if your **Your Name: Asyraf Haqem**, and your **Class Section is 2**.
 - File name: **SKMM2713_AsyrafHaqem_Section2.ppt** (Powerpoint)

2.0 TITLES FOR INDIVIDUAL ASSIGNMENT:

No	Student name	Topic
1		BIOCOMPATIBLE POLYMERS
2		BIODEGRADABLE AND BIOCOMPATIBLE POLYMERS FOR TISSUE ENGINEERING
3		BIODEGRADABLE POLYMERS
4		BIOMEDICAL POLYMER
5		COMPRESSION MOLDING
6		CONDUCTING POLYMERS
7		ELASTOMERS (STRUCTURE AND PROPERTIES)
8		EXTRUSION MOLDING
9		GREEN COMPOSITES (POLYMER MATRIX COMPOSITES ONLY; INCLUDING WOOD PLASTIC COMPOSITES)
10		HIGH PERFORMANCE POLYMERS
11		HIGH TEMPERATURE PLASTICS
12		INJECTION MOLDING
13		MICROSTRUCTURES IN POLYMER
14		NATURAL POLYMER
15		PLASTICS: RECYCLING AND SUSTAINABILITY
16		PMMA (ACRYLIC)
17		POLY(VINYL CHLORIDE) - PVC
18		POLYAMIDES
19		POLYCARBONATES
20		POLYESTERS
21		POLYMER ADDITIVES (PLASTICIZER AND STABILIZER)

22		POLYMER RECYCLING: OPPORTUNITIES AND LIMITATIONS
23		POLYMER SYNTHESIS
24		POLYMER TESTING (TENSILE AND FLEXURAL PROPERTIES)
25		POLYMERIC BIOMATERIALS
26		POLYMERIZATION AND STRUCTURE OF POLYMERS (POLYMER CHAINS SHAPE AND STRUCTURE, CRYSTALLINITY, MOLECULAR WEIGHT)
27		PROPERTIES OF PLASTIC
28		RECYCLING OF POLYMERS
29		RESIN TRANSFER MOLDING (OF THERMOSET POLYMERS)
30		SYNTHETIC POLYMERS
31		THERMAL PROPERTIES OF POLYMERS (GLASS TRANSITION TEMPERATURE, MELTING TEMPERATURE)
32		THERMOFORMING MOLDING
33		THERMOSET AND THERMOPLASTIC
34		TYPES OF POLYMER CLAY
35		WIRE COATING
36		POLYMERIC BIOMATERIALS
37		MICROSTRUCTURES IN POLYMER
38		NATURAL POLYMER
39		POLYMERIC BIOMATERIALS
40		POLYMERIZATION AND STRUCTURE OF POLYMERS (POLYMER CHAINS SHAPE AND STRUCTURE, CRYSTALLINITY, MOLECULAR WEIGHT)
41		PROPERTIES OF PLASTIC
42		RECYCLING OF POLYMERS
43		RESIN TRANSFER MOLDING (OF THERMOSET POLYMERS)