



**MANUFACTURING PROCESS
(SKMM 2713)
SEMESTER 1 2019-2020**

GROUP PROJECT

1.0 OBJECTIVES

The main objectives of this group assignment are as follows;

- i. To train students in acquiring and organizing information
- ii. To improve the students' knowledge and understanding with regards to the field of study
- iii. To train student working in team
- iv. To train students in technical report writing
- v. To train students presenting their work (if necessary)

2.0 BRIEF EXPLANATION OF THE ASSIGNMENT

- i. Assuming you are working as an engineer in a manufacturing company which have decided to proceed with the new project, that is, manufacturing of household consumer product. You are assigned to this project with a *team of three/four other engineers*.
- ii. You are required to make this project a success by means of acquiring all the necessary information pertaining to the manufacturing of the product (as given via a simple drawing). The information should be (but not limited to) the following list;
 - (a). The historical development of this product (where applicable)
 - (b). The competitors presently present locally
 - (c). Engineering drawings and related technical information of the component to be produced
 - (d). Type of materials used
 - (e). The major manufacturing processes involved
 - (f). Related machines and equipment used
 - (g). Assembly methods of the component (if applicable)
 - (h). Type of manufacturing system to be used (mass, batch, job, group, etc)
 - (i). Estimated product cost structure.
 - (j). Other related information – you may assume the production quantity, make or buy, etc.

3.0 FORMAT OF THE REPORT & EVALUATION

You are required to produce a neatly bounded, typed in A4 sized paper, technical report describing on the assignment, assuming to be presented before the board of directors of the company. You may use an appropriate format, which should include all the information listed in Section 2.0 (ii) above. Refer Appendix 1 attached pertaining to the weightage of the report evaluation

4.0 INSTRUCTION

You must appoint a group leader, held meetings & discussions (take minute of important decisions, attendance). Only one report to be submitted by each group, including a soft copy. The report must indicate the tasks and contributions assigned to each group members. The submission date should not later than **12 PM, 19/12/2019**. Late submission *without prior notification to the lecturer will not be accepted*. **Total mark will be 100 or equivalent to 15%** of the total coursework mark allocation. **You will be asked to give peer evaluation (5%)**. A few groups will be called to make oral presentation (selected randomly).

You should upload your report to *turnitin.com* and make sure your report is **below 40% of similarity index**. Report **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: **22014097** with enrolment key: **12345** Choose **SKMM2713-SEM1-19-20 (GROUP ASSIGNMENT)**
- ii) Make sure to upload your report with **file-name** and **submission title** as formatted shown below:
For example, if your Group Name: AliAndFriends, and your Class Section is 1.
SKMM2713_AliAndFriends_Section1.pdf

OUTLINE OF THE REPORT

1. INTRODUCTION	10%	
<ul style="list-style-type: none">• Method of production• Function of the component/product• Assumption on the type of manufacturing system• Assumption on the quantity of production• Product cost estimate		
2. DETAILED SPECIFICATION OF THE FINAL PRODUCT	20%	
<ul style="list-style-type: none">• Material selection• Component analysis• Dimensional, surface etc specification• Technical drawing		
3. STAGES OF THE PROCESSES	40%	
<ul style="list-style-type: none">• Discuss at least three (3) alternative processes• The type of process selected for each step or stages of the total product manufacturing• Stages Process stages or steps flow chart		
4. TYPES OF MACHINES/EQUIPMENT FOR EACH PROCESS	10%	
<ul style="list-style-type: none">• Provide pictures or sketches		
5. GREEN MANUFACTURING (SUSTAINABILITY)	10%	
6. CONCLUSION	}	10%
7. REFERENCES		
8. APPENDIX		



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PEER AND SELF-ASSESSMENT OF GROUP ASSIGNMENT

Evaluators' name:

GIVE MARKS (%) in the appropriate columns to evaluate other group members' performance

No.	Performance Criteria	Level 1 (0% - 20%)	Level 2 (21% - 40%)	Level 3 (41% - 60%)	Level 4 (61% - 80%)	Level 5 (81% - 100%)
2.	Effort in Problem-solving	Does not try to solve problems or help others solve problems. Let's others do the work.	Rarely tries to solve problems or help others solve problems.	Does not suggest or refine solutions but is willing to try out solutions suggested by others.	Refines solutions suggested by others	Actively looks for and suggests solutions to problems.
Name of other group member	1.					
	2.					
	3.					
	4.					
	5.					
4.	Participation and Working with Others	Does not participate, listen to, shares with, and supports the efforts of others. Is not a good team player?	Rarely participate, listens to, shares with, and supports the efforts of others. Often is not a good team player.	Often participate, listens to, shares with, and supports the efforts of others, but sometimes is not a good team member.	Usually participate, listens to, shares with, and supports the efforts of others. Does not cause" ripples" in the group.	Almost always participate, listens to, shares with, and supports the efforts of others. Tries to keep people working well together.
Name of other group member	1.					
	2.					
	3.					
	4.					
	5.					

