Fyp/3

NANYANG TECHNOLOGICAL UNIVERSITY

School of Mechanical & Aerospace Engineering

**FINAL YEAR PROJECT PROPOSAL**

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| **OBJECTIVES OF FINAL YEAR PROJECT** |
| i) The purpose of a project should be to give the student a realistic exercise in the practice of mechanical engineering at a professional level.  ii) It should be seen as a vehicle for integrating the knowledge gained in several subject areas of the degree course.  iii) It should be designed to allow the exercise of the undergraduate’s personal qualities - viz. maturity, initiative and creative ability.  iv) The project should provide examiners with an opportunity to assess a student’s ability under a simulated professional situation. |
| **SCOPE OF FINAL YEAR PROJECT**  Students are required to analyse and synthesize problems in any of the disciplines of mechanical and production engineering through a project requiring application of basic engineering principles. The project may take any one or a combination of the following forms: feasibility study, product development, computer modelling and analysis, design and construction, testing and experimental investigation. |
| **RESPONSIBILITY OF SUPERVISOR**  The duty of the supervisor is to train students to achieve the **Final Year Project’s** objectives irrespective of the student’s ability. The supervisor is responsible for the continuous assessment of the overall progress of the project. |

Please complete all details and email the form to MAE Undergraduate Office at [askmae@ntu.edu.sg](mailto:askmae@ntu.edu.sg).

1. **Name of Supervisor(s)/Div**:
2. **Name of Student/Matric**:
3. **Proposed Project Title**:
4. **Scope of Work: (1200 charcs**)

1. **Objective of the project: (400 charcs**)
2. **For Industry Sponsored Project (ISP) please attached Form FYP/4**
3. Please check with Laboratory Supervisor for any Laboratory space required for the proposed project.
4. Project category (please tick only one)

i) ( ) Category A -- Design and development

ii) ( ) Category B -- Investigation and analysis

iii) ( ) Category C – Software applications

iv) ( ) Category D – AI/Data Science/Programming

1. Indicate one or more of the following areas that is relevant to the proposed project.

(only first three areas indicated will be listed in project listing):

a. ( ) Artificial Intelligence i. ( ) Materials

b. ( ) Automation j. ( ) Mathematics & Computing

c. ( ) Design k. ( ) Measurements

d. ( ) Control l. ( ) Mechanics of Solid & Materials

e. ( ) Dynamics m. ( ) Mechatronics

f. ( ) Engineering Management n. ( ) Robotics

g. ( ) Fluid Mechanics o. ( ) Thermodynamics & Heat Transfer

h. ( ) Manufacturing

1. Indicate the estimate weightage of the following items in the proposed project. Each component must not exceed 80%. Please state in terms of percentage (total 100%):

i) ( ) Literature survey

ii) ( ) Software development

iii) ( ) Software application

iv) ( ) Design

v) ( ) Fabrication and testing

vi) ( ) Laboratory/site investigation

vii) ( ) Numerical analysis and mathematical formulation

1. Additional knowledge/skill useful to the proposed project (please indicate only keywords, e.g. C programming, and do not state any final year subject or optional group):
2. Specialization (please tick only one)

i) ( ) Mainstream student

ii) ( ) Design Specialisation student

iii) ( ) **Robotics and Mechatronics** Specialization student

iv) ( ) Intelligent Manufacturing Specialization student

v) ( ) Aerospace student

1. Please indicate whether this is a special FYP under the SRP: **Yes / No**

**SRP**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Signature of Main Supervisor/Date Signature of Co-Supervisor/Date