# About Industry Sponsored Final Year Project (IS-FYP)

The purpose of the IS-FYP is to provide the real-world context to apply the knowledge students have learned to practical problems. It will be mutually beneficial for both NTU and the participating industry partners. It is also hoped that the IS-FYP will enable NTU to establish closer relationships with industry partners.

﻿

IS-FYP encourages students to work on problems in any of the disciplines of mechanical and aerospace engineering through a project requiring application of basic engineering principles, which have a direct industrial significance. The project may involve an in-depth study, investigation, product development, computer modeling and analysis, design, construction and testing and experimental investigation, spread over the whole academic year. Only single-student projects will be considered. Students are required to submit a formal report, demonstrate the project and also make an oral presentation on completion of the project.

﻿

IS-FYPs can be initiated by an academic staff from MAE through contacts with industry partners or provided directly by companies (industry sponsors) who do not have any academic staff in mind. Projects undertaken during the Professional Internship (PI) may also be extended into IS-FYPs with the submission of the IS-FYP forms to the [MAE Undergraduate Office](http://mailto:mae_reg@ntu.edu.sg/).

﻿

Every IS-FYP will be jointly supervised by supervisors from the sponsor company (industry supervisors) and MAE supervisors but will be graded only by MAE supervisors. IS-FYPs are undertaken by students not on a full-time basis since final year students are also required to read courses on campus. Therefore, students normally work on the IS-FYPs on campus during the semesters. Visits to companies during the semesters may be arranged with mutual agreement by industry supervisors, MAE supervisors and students involved in the IS-FYP.

﻿

If any required software, equipment or material is not available in MAE, industry sponsors are expected to meet the expenses of the project. While primary guidance to the student will be provided by the MAE supervisor, the industry supervisor is obligated to provide the student with the necessary supporting information.

﻿

While the Intellectual Property (IP) will be jointly owned, the industry sponsor will have access to all results of the IS-FYP. MAE and the University will not be held responsible for the accuracy or otherwise of the results and work done by the student.

**﻿**

# How to submit IS-FYP

﻿

**For proposals with MAE academic staff as main supervisor**

The supervisor will submit the proposal [online](https://venus.wis.ntu.edu.sg/PortalServices/ServiceListModule/LaunchService.aspx?type=2&launchSvc=https%3A%2F%2Fsso%2Ewis%2Entu%2Eedu%2Esg%2Fwebexe88%2Fowa%2Fsso%5Fredirect%2Easp%3Ft%3D2%26app%3Dhttps%3A%2F%2Fwis%2Entu%2Eedu%2Esg%2Fwebexe88%2Fowa%2FFYP%5FFILTER%5FSTAFF%2Emain) during the “Call for MAE FYP proposals”.

﻿

**For proposals without MAE academic staff as main supervisor**

The industry sponsor is to complete the form ﻿and submit it to the [MAE Undergraduate Office](http://mailto:mae_reg@ntu.edu.sg/). Student may contact a MAE academic staff to be the supervisor of this IS-FYP or the proposal will be circulated among MAE academic staff for a suitable supervisor. The MAE academic staff will then evaluate and submit the proposal.



School of Mechanical & Aerospace Engineering Reg. No. 200604393R

**Industry-Sponsored Final Year Project Proposal (FYP/4)**

**Section A : (To be completed by Company Proposer)**

|  |  |
| --- | --- |
| **Project Title** : |  |
|  |
|  |  |
| **Possible NTU Supervisor** : |  |
|   | (Please leave blank if you wish the School to recommend a suitable NTU supervisor) |
|  |
| Brief Description of Project (not more than 100 words, stating objectives and scope of work): |
|  |
|  |
|  |
|  |
|  |
|  |  |
| Materials/Equipment Required | Tick, if provided by your organisation |
| (a) |  |  |  |  |
| (b) |  |  |  |  |
| (c) |  |  |  |  |
| (d) |  |  |  |  |
|  |  |
| Area of Mechanical/Aerospace Engineering (please tick): |
|  |  |
|  |  | Applied Mechanics / Structures/ Control Engineering |
|  |  | Aerospace / Materials / Automation/ QA |
|  |  | Thermal Engineering / Fluid Mechanics / Aerodynamics |
|  |  | Other (please specify) : |  |
|  |  |
| Is the project to be carried out by a NTU Professional Internship (PI) student? Yes / No\* |
| If YES, please give PI Student’s Full Name: |  |
| Student's current PI Company: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| (and complete **Section C** of this form) |
|  |  |
| Proposer’s Name : |  | Signature : |  |
| Designation : |  | Date : |  |
| Organization: |  |
| Address : |  |
|  |
| Tel. : |  | Fax. : |  |
|  |
| Please complete form and return to : FYP Coordinator, School of Mechanical and Aerospace Engineering, Nanyang Technological University, 50 Nanyang Avenue, Singapore 639798. |

**Section B:** (To be completed by NTU MAE Academic Staff evaluating the project)

Recommendations/Reasons:

|  |
| --- |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |

Please submit this form together with form FYP/3 if you recommend that it is suitable for FYP.

|  |  |
| --- | --- |
| Signature: |  |
| Name : |  |
| Date : |  |

**Section C:** (To be completed by Company Proposer)

Only required to fill in if it is necessary for PI student to be given priority allocation to continue with the project as FYP.

(1) Please provide reason for priority allocation.

|  |
| --- |
|  |
|  |
|  |
|  |
|  |

(2) Is the company supervisor related to the PI student? (Yes/No)\*

|  |  |
| --- | --- |
|  If yes, please state the relationship: |  |

(3) Any duplication of PI works in the FYP should be made known to the NTU Supervisor.

(4) Please advise the PI student that the assessment would be only for work done in addition to that carried out during PI. The FYP report would be reviewed together with the PI report for the assessment

(5) Software Requirement:

|  |  |  |  |
| --- | --- | --- | --- |
| ANSYS software | Required | For months | Remark |
| Mechanical Enterprise |  Y / N \* | 3 / 6 / 9 / 12\* | The ANSYS software is available for lease. The Company shall agree to pay the leasing charges. The Company can contact ANSYS agents for more information. |
| CFD Premium |  Y / N\* | 3 / 6 / 9 / 12\* |
| Mechanical CFD  |  Y / N\* | 3 / 6 / 9 / 12\* |

\* delete where inapplicable

**NTU Supervisor’s Reply:**

I recommend/oppose\* that the current PI student should be given priority allocation to continue with the project as FYP.

|  |  |  |
| --- | --- | --- |
|  |  |  |
| Signature |  | Date |

\* delete where inapplicable