

# ***Purdue-NYCU 3+1+1 BSMS Program***

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# Purdue: West Lafayette 2021-Present



**P PURDUE UNIVERSITY**

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0 100 200 300 km

# *Purdue IE – NYCU IEM 3+1+1 BSMS*

NYCU-IEM UG degree – completed your 4<sup>th</sup> year at Purdue U., West Lafayette, IN, U.S.A. (Max. 12 credits earned (one 400-level course), could be transferred towards the MSIE degree)

Purdue-IE MS degree (30 credits) – completed your 5<sup>th</sup> year at Purdue U. (Only leave with 18 credits to complete the MS degree. Two options:

- 1) MSIE-Thesis (Research Focus, 9 credits for MS Thesis); or
- 2) MSIE-PMP (Industry Practice, 9 credits for PMP Capstone).





# ***Purdue IE – NYCU IEM 3+1+1 BSMS***

**A maximum of 10 NYCU-IEM students will be admitted to this program annually.**

**Tuition and expenses: NYCU students will pay out-of-state tuition fees, and living expenses during their studies at Purdue.**

**Submit an application package by March 1 and forward list of candidates to Purdue by April 1. (TOEFL/similar, GRE (option), NYCU transcript, SOP, resume)**

**Evaluate NYCU applicants in-person and/or virtually (month of April)**

# *Academic Research Focus/Challenges*

[https://engineering.purdue.edu/IE/Research/index\\_html#rework](https://engineering.purdue.edu/IE/Research/index_html#rework)

## GRAND CHALLENGES



DIGITAL TWIN - INDUSTRIAL  
OPERATIONS

ENERGY & SUSTAINABILITY

SPACE

IE COMPUTES

21ST CENTURY HUMAN  
DEVELOPMENT

## RESEARCH AREAS



DECISION MAKING,  
COGNITION  
& HUMAN PERFORMANCE

NEXT GENERATION  
PRODUCTS & SERVICES

COMPUTATIONAL IE

SYSTEMS & NETWORKS

## ACADEMIC PILLARS



HUMAN FACTORS

MANUFACTURING

PRODUCTION SYSTEMS

OPERATIONS RESEARCH

# Industry PMP Capstone Challenges

<https://engineering.purdue.edu/IE/academics/graduate/masters/non-thesis/professional-masters-program>

## PROFESSIONAL MASTER'S PROGRAM

INDUSTRY PARTNER



*Powering Business Worldwide*



School of Industrial Engineering

### Professional Master's Program

by Purdue Edwardson School of Industrial Engineering • 1/6

1. Eaton and Purdue PMP  
Purdue Edwardson School of Industrial Engineering
2. IE Professional Master's Program & Industry Partner GE - Success Story  
Purdue Edwardson School of Industrial Engineering
3. Introduction to Professional Master's Program (PMP)  
Purdue Edwardson School of Industrial Engineering
4. Professional Master's Program; Student Perspective - Praneashram "Ram"  
Purdue Edwardson School of Industrial Engineering
5. Professional Master's Program; Student Perspective - Thea Mudaliar (BSIE '22, MSIE '24)  
Purdue Edwardson School of Industrial Engineering
6. Fall 2024 Outstanding PMP Student, Yu-Chien Yu  
Purdue Edwardson School of Industrial Engineering

### Program Highlights!

The Professional Master's Program (PMP) provides graduate-level technical education, with a focus on professional skills development that meets the needs of globally dispersed industrial enterprises.

The program provides students with the technical skills they would acquire in a traditional master's program, but also develops skills needed in industry, such as leadership and management skills, professional communications, client engagement skills, and managing projects.

This program is great for students continuing to build on their undergraduate education and for those with industry experience. This flexibility ensures that all students, regardless of their prior experience, can benefit from the program and develop the skills they need to succeed.

- Flexible MSIE Study Plan!
- Finish in 9 months or up to 24 months.
- Multiple Industry Sponsored Capstone Projects: Up to 1 year combined internship and co-op experience.
- Advanced IE Courses: 21 Credits + Professional Consulting Training.
- Connections with Corporate Executives and Senior Management!
- Opportunity to receive PMP Outstanding Award