

**Exchange Coordinators** 

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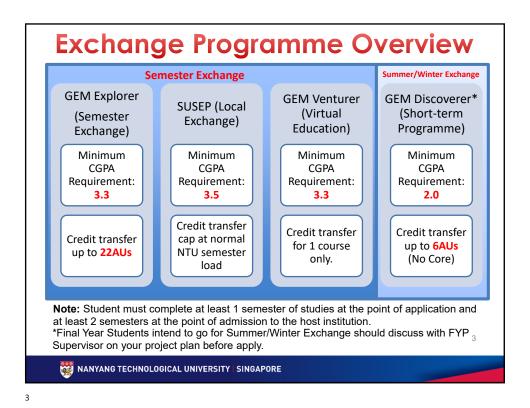
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When to go for Semester Exchange?

Admitted as Year 1 students

• Year 2 Sem 1

• Year 3 Sem 1

• Year 3 Sem 2 (Except ABP students\*)

Admitted as Direct-Entry students

• Year 3 Sem 1

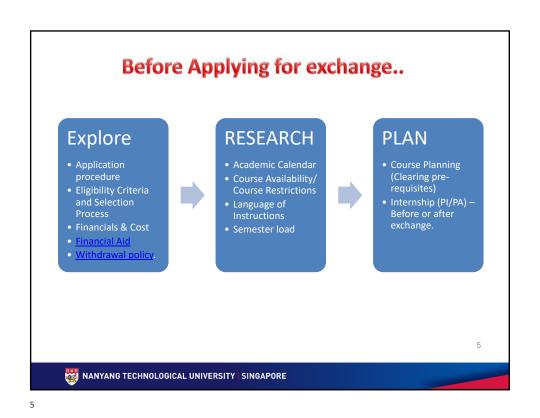
• Year 3 Sem 1

• Year 3 Sem 2

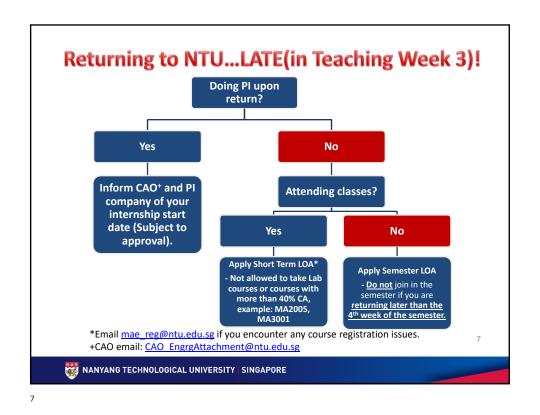
Semester not allowed to go for semester exchange:

Year 2 Sem 2 - Due to MA2079 Engineering Innovation & Design (EID)
Year 4/ Final Year - Due to MA4079 Final Year Project (FYP)
\*ABP students need to start FYP and PI concurrently from Y3S2.

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Things to watch out for... Academic Calendar Students going for exchange in Semester 1 should join in the Semester no later than Week 4 of Semester 2. **SEMESTER 2** 2026 MARCH JANUARY FEBRUARY SMTWTFS S M T W T F S S M T W T F S 4 1 2 3 4 5 6 7 1 2 3 1 2 3 4 5 6 7 4 5 6 7 8 9 10 8 9 10 11 12 13 14 8 8 <mark>9 10 11 12 13</mark> 14 5 1 11 12 13 14 15 16 17 6 | 15 <mark>| 16 | 17 | 18 | 19 | 20 |</mark> 21 9 15 16 17 18 19 20 21 7 22 23 24 25 26 27 28 18 19 20 21 22 23 24 10 22 23 24 25 26 27 28 3 25 26 27 28 29 30 31 11 29 30 31 6 NANYANG TECHNOLOGICAL UNIVERSITY | SINGAPORE



Things to watch out for... Course Offerings MAE courses (Especially AE core courses) only offered in one Semester. Having read MA2001, MA2002 and MA2005 иA3001 Machine Element Design Sem 1 & 2 MA3002 3 MA2001 Solid Mechanics and Vibration Sem 1 & 2 Heat Transfer Mathematical Methods in Engineering 3 MA2007 3 MH1810 & MH1811 or CY1203 or MH2812 or MA3005/ MA3705 Control Theory / Aerospace Control Theory
MA3006 Fluid Mechanics CY1602 or MH2810

3 Having read MA2006

3 MA2003 Sem 1 & 2 3 MA2003 MA3010 MA3071 Thermodynamics & Heat Transfer Engineering Experiments (ME) Sem 1 Sem 1 & 2 MA3072 Engineering Experiments (AE) MA3700 Aircraft Structures I 3 MA2001 MA3701 MA3702 MA3703 MA3704 3 MA2003 3 MA2007 2 MA2701 & MA3705 Aerodynamics Aircraft Propulsion Sem 1 Flight Dynamics Aircraft Electrical Devices 4 Having Read MA3001 3 MA3006 Engineering Design Fluid Dynamics 8 NANYANG TECHNOLOGICAL UNIVERSITY | SINGAPORE

### Things to watch out for...Language of instruction

Overview of ECTS subjects on Faculty of Mechanical Engineering



Code	Title Introduction to Mechanical Vibrations and Structural Dynamics	Credits	Language of Instruction	Semester	doc. Ing. Jiří Podešva, Ph.D.	
330- 0101/01		5	English	Winter		
330- 0301/02	Statics	5	Czech, English	Summer	mmer Ing. Milada Hlaváčková, Ph.D.	
330- 0302/02	Dynamics I	5	Czech, English	Winter	Ing. Zdeněk Poruba. Ph.D.	
330- 0304/03	Technical Vibrations	5	Czech. English	Winter	Podešva, Ph.D. Dr. Ing. Ludmila	
330- 0305/02	Mechanics of Materials	5	Czech, English	Winter. Summer		
330- 0306/03	Mechanics of Materials 2	5	Czech. English	Summer	Dr. Ing. Ludmila Adámková	
330- 0309/02	FEM - ANSYS	2	Czech, English	Summer	Ing. Pavel Maršálek	

- For Core/Major PE, the course should be taught in English, with assessments and examinations also in English.
- For language courses to be mapped as **BDE**, the course can be taught in non- English language.

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## Maximum AUs allowed for Credit Transfer -**GEM Explorer Semester Exchange**

#### 22AUs

- Applicable to all **MAE** students
- Including 1AU laboratory course (MA3071/MA3072)

#### 24AUs

- Applicable to MAE ABP\*/DDP/Second major students only.
- Including 1AU laboratory course (MA3071/MA3072)
- The minimum grade to be counted for credit(AU) transfer must be equitable to a Pass grade at the host university.
- All Pass and Fail grades will be reflected in Degree Audits and transcripts.

Note: \*ABP will be dropped for students participating exchange in Year 3 Semester 2.10

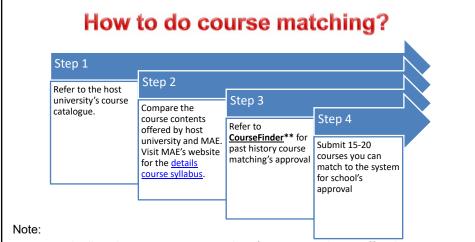
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### **Course matching criteria**

The decision to approve/reject each course matching is not restricted to, but is largely based on the following factors:

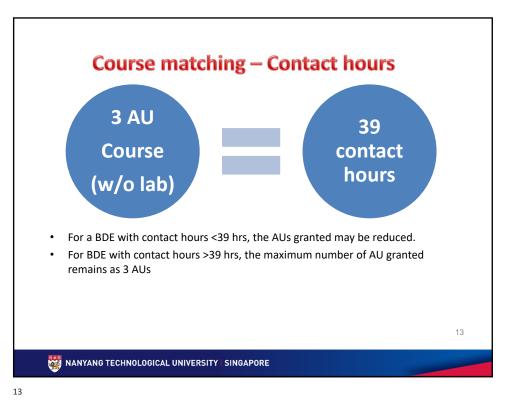
- 1. Match in content (approximately 75% match)
- Number of contact hours (In-person lectures, tutorials and physical face-to-face labs (computer labs will not be considered) will be counted only)
- 3. The course must be examinable (e.g. exams, tests, projects etc)
- The course should be taught in English, including assessments, except for BDE language courses, which can be in another language.
- \*\*Students are discouraged from reading courses that are pitched at the postgraduate level

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- Approval will not be given to course matching for courses no longer offered in NTU.
- Student must obtain re-approval of courses that were in the CourseFinder. Not all approved course matchings found in the CourseFinder will be approved again as School is constantly reviewing the curriculum.
- \*\*Studentlink > Academic Services > Undergraduate > GEM Explorer CourseFinder 12

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Course matching - Pre-requisites NOT allowed to read any pre-requisite concurrently with another course that requires a pass in that pre-requisite Example, courses such as: MA2007 MA3003 Heat Thermodynamics Transfer MA2003 Intro to Thermo-Fluids MA3006 Fluids MA4002 Fluid Mechanics **Dynamics** MA3702 Aircraft Propulsion MA2003 Introduction to MA4701 MA3703 Flight Dynamics Thermo-fluids MA2007 Thermodynamics Aircraft MA2701 Flight Performance Design MA3705 Aerospace Control Theory

# Course matching - Major PE

- Students who attend an overseas exchange can read Major PE regardless of offering semester in MAE. (refer to MA48XX courses in the course curriculum page), provided all the necessary pre-requisites are met.
- Students participating exchange in Year 2 cannot read MPE in exchange.

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#### **AERO students specializing in Mechanical Engineering**

AERO students specializing in Mechanical Engineering should **NOT** read the following courses on exchange:

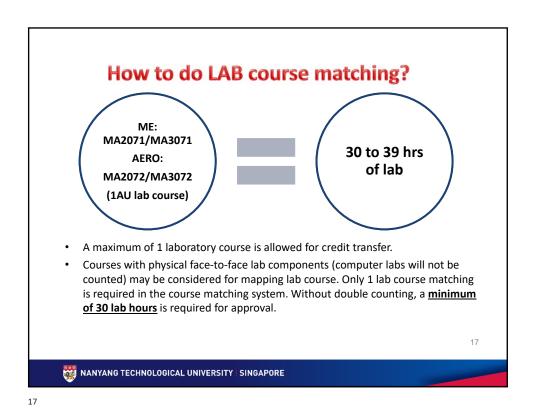
#### **AERO: Specialisation in Mechanical Engineering** (NOTE: All courses must be graded – S/U option cannot be used, and cannot read the courses during exchange.)

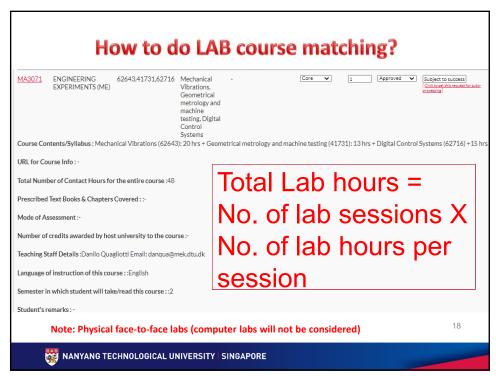
MECHANIC	CAL ENGINEERING	COURSE TYPE						
COURSE CODE	COURSE TITLE	AE	ME (Mainst ream)	ME (Design)	ME (RMS)	ME (IMS)		
MA3704	Aircraft Electrical Devices	Core	Not offered to Mechanical Student.					
MA2002	Theory of Mechanism	BDE						
MA2009	Introduction to Electrical Circuits & Electronic Devices	BDE						
MA3001	Machine Element Design	BDE						
MA4002	Fluid Dynamics	BDE						

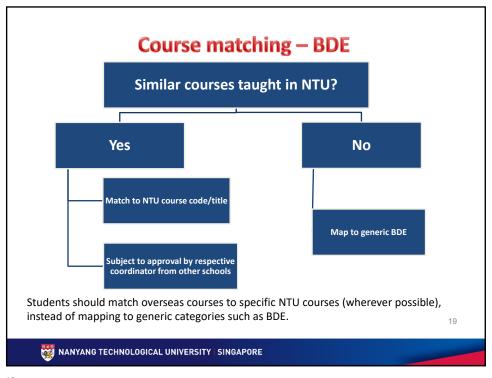
Courses listed on the above must be graded. Details can be found on the MAE website.

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# **Course matching – Minor Programmes**

- Seek prior approval (by written endorsement or email) from the School offering the Minor.
- MAE Exchange Coordinators should be copied in all correspondences.

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#### **Example of a good course-matching submission:**

Course Contents/Syllabus: The overall aim is to provide the students an understanding of: - process dynamics - the operation and application of simple feedforward and feedback control - how measurements and actuators can be connected in a process plant The course should thus provide the student the ability to design single input - single output (SISO) control systems for chemical and biotechnical processes with continuous and batchwise operation.

URL for Course Info; http://www.kurser.dtv.dk/xxxx.aspx?menulanguage=en-gb

Total Number of Contact Hours for the entire course: Lecture= 26 hours, Tutorial= 13 hours, Laboratory/ Project Work = 13 hours

Prescribed Text Books & Chapters Covered: : Seborg D.E., Edgar T.F., Mellichamp D.A. (2004) Process Dynamics and Control (2nd edition). John Wiley & Sons. Or Seborg D.E., Edgar T.F., Mellichamp D.A. and Doyle F.J. (2011) Process Dynamics and Control (3rd edition), John Wiley

Mode of Assessment : Quizzes; Design Projects; Final Exam

Number of credits awarded by host university to the course :5

Note: Course matching submission with incomplete or incorrect details/information will be rejected.



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### Courses not allowed to read during exchange

The following course matchings will not approved by MAE:

#### Course Code/Title

EG1001 Engineers and Society

HW0288 Engineering Communication

CC0001 Inquiry and Communication in the Interdisciplinary World

CC0002 Navigating the Digital World

CC0003 Ethics & Civics in a Multi-Cultural World

ML0004 Career and Entrepreneurial Development for the Future World

CC0005 Healthy Living & Wellbeing

CC0006 Sustainability: Human, Society, Economic & Environment

CC0007 Science & Technology for Humanity

Online courses with no physical lecture/tutorial

Please read the courses (you have missed) when you return.

Note: Second-year students are not allowed to read final-year courses in exchange 22



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## **Examinations/ CAs**

- All examinations (Main, Supplementary or otherwise) offered by the host university will have to be taken at the host university, not in NTU.
- If you fail the course, you will have to retake the course in NTU.
- Requests/ Appeals to sit for host university's exams in NTU will not be entertained.
- Early Examination Request at the host university or any other special requests are subject to approval by the host university and NTU.
- Transcripts must indicate all courses that have been read, including any failed courses.

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#### **AU Projection**

- Students must submit the AU Projection list within the deadline mentioned on the E-Notification from OAS. Finalization of AU projection only after you confirm all your registered courses at the host university. You can only submit this once.
- Please do not submit credit transfer until you have received your official transcript (with University's seal and signature)

Sent: Tuesday, 1 October 2019 11:20 AM

To:

Cc: ug\_outbound <ug\_outbound@ntu.edu.sg>
Subject: Action needed for confirmation of courses registered at the host university - GEM Explorer AY 2019 51

Dear student
We hope you have finalized your course registration at the host university. Please log in your GEM Explorer application to confirm the courses you registered at
the host university.

https://sso.wis.ntu.edu.sg/webexe88/owa/sso\_redirect.asp?t=1&app=https://wis.ntu.edu.sg/pls/lms/instep\_stud\_subj\_reject.notice

- Select a sign-up profile to begin Click to finalize your list of approved course-matching records Select the courses that you have registered Select purpose of finalizing: AJ projection Check the list carefully and submit

We appreciate your prompt action by 07-OCT-2019. We wish you a fruitful study experience

Regards Office of Academic Services

CONFIDENTIALITY: This email is intended solely for the person(s) named and may be confidential and/or privileged. If you are not the intended recipient, please delete it, notify us and do not copy, use, or disclose its contents.

Towards a sustainable earth: Print only when necessary. Thank you.

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## **Returning to NTU - Credit Transfer**

- Please upload your transcript into the system after you have received it from the host university. Click here for steps on credit transfer.
- Credit transfer records submitted for exchange in previous semester will be updated by the end of the following semester after necessary checks, if any.

Example: Exchange in AY24/25 Sem 1, Credit transfer will be updated by end of AY24/25 Sem 2.

- Credit transfer requests are processed in batches. Please be patient for any delays.
- If you have taken a pre-requisite course during exchange, your credit transfer will not be completed in time for your course registration in NTU.

**Example:** Read MA3001 Machine Element Design overseas and intend to read MA4001 Engineering Design in the coming semester.

- Please email mae reg@ntu.edu.sg stating the course you want to read and the prerequisites which you have completed overseas before the course registration period.
- For credit transfer matters, please contact Ms Tiana (thaiyana@ntu.edu.sg).

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## **Contact Information**

School of MAE



#### Website:

https://www.ntu.edu.sg/mae/admissions/currentstudents/undergraduate/student-exchange

OGEM

**GEM Explorer/ SUSEP Exchange** 

GEM-Explorer@ntu.edu.sg

**GEM Discoverer** 

gemdiscoverer@ntu.edu.sg

**GEM VEnturer** 

GEM-VEnturer@ntu.edu.sg

Website:

https://www.ntu.edu.sg/education/student-exchanges/gem-explorer

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