

**BACHELOR OF ENGINEERING IN
MECHANICAL ENGINEERING (BEngM.E.)**

Student Handbook (2019-2020)

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(The suggested study paths for students admitted with Advanced Standing are available at the Major's website.)

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1. AIMS OF MAJOR

The major aims to prepare students with solid background of the required fundamental knowledge in engineering mechanics, materials engineering, mechanical product design, mechatronics, dynamics and controls, and thermal fluidics, so that they can serve and contribute to a broad range of mechanical engineering industries.

Intended Learning Outcomes of Major (MILOs)

Upon successful completion of this major, students should be able to:

No.	MILOs	Discovery-enriched curriculum related learning outcomes (please tick where appropriate)		
		A1	A2	A3
1.	Conceptualize, analyze, and apply mechanical entities to design discrete products with required performance.	✓	✓	
2.	Develop competency in core areas such as engineering design of materials, dynamics and control, embedded systems, automation engineering, and micro and nano technologies.		✓	✓
3.	Extend beyond core knowledge boundary in one or more synergistic discipline areas to enable them solving a broader range of practical problems in an integrated manner.		✓	
4.	Select and implement appropriate “process engineering” and “design for manufacture” solutions for efficient manufacturing of discrete products.		✓	
5.	Demonstrate critical thinking, independent research, qualitative and quantitative analysis capability, and communication skills required for mechanical engineering.	✓	✓	✓
6.	Meet the core competency required for corporate membership of professional bodies, such as the Hong Kong Institute of Engineers (HKIE).			✓

A1: *Attitude*

Develop an attitude of discovery/innovation/creativity, as demonstrated by students possessing a strong sense of curiosity, asking questions actively, challenging assumptions or engaging in inquiry together with teachers.

A2: *Ability*

Develop the ability/skill needed to discover/innovate/create, as demonstrated by students possessing critical thinking skills to assess ideas, acquiring research skills, synthesizing knowledge across disciplines or applying academic knowledge to real-life problems.

A3: *Accomplishments*

Demonstrate accomplishments of discovery/ innovation/ creativity through producing/ constructing creative works/new artefacts, effective solutions to real-life problems or new processes.

2. DEGREE REQUIREMENTS

2.1 Normal and Maximum Period of Study

	Normative 4-year Degree	Advanced Standing I (Note 1)	Advanced Standing II (Senior-year Entry) (Note 2)
Normal period of study	4 years	3 years	2 years
Maximum period of study	8 years	6 years	5 years

Note 1: For students with recognised Advanced Level Examination or equivalent qualifications.

Note 2: For Associate Degree/Higher Diploma graduates admitted as senior-year intake students.

2.2 Minimum Number of Credit Units Required for the Award and Maximum Number of Credit Units Permitted

Degree Requirements	Normative 4-year Degree	Advanced Standing I	Advanced Standing II (Senior-year Entry)
Gateway Education requirement *	30 credit units	21 credit units	12 credit units
College/School requirement *	6 credit units	waived	waived
Major requirement	81 or 84 credit units (Core: 72 or 75 Elective: 9)	75 or 78 credit units ⁺ (Core: 69 or 72 [^] Elective: 6)	66 credit units ⁺ (Core: 63 Elective: 3)
Free electives / Minor (if applicable)	3 or 0 credit units	0 credit unit	0 credit unit
Minimum number of credit units required for the award	120 credit units	96 or 99 credit units[^]	78 credit units
Maximum number of credit units permitted	144 credit units	114 credit units	84 credit units

* For details, please refer to the Curriculum Information Record for Common Requirements.

⁺ Course exemption granted to individual students should be made up within electives in the Major Requirement.

[^] Up to 3 credit units of core courses are to be waived for students admitted with Advanced Standing I.

2.3 Gateway Education

(The catalogue term of the Gateway Education requirement that students will follow will be the same as their admission term.)

Note 1: For students with recognised Advanced Level Examination or equivalent qualifications.

Note 2: For Associate Degree/Higher Diploma graduates admitted to the senior year.

Curriculum Catalogue Term	Semester A 2019/2020 onwards		
	Normative 4-year Degree	Advanced Standing I (Note 1)	Advanced Standing II (Senior-year Entry) (Note 2)
<u>University requirements</u>			
English			
• GE1401 University English	3 credit units	3 credit units	Not a compulsory requirement
• Discipline-specific English: GE2410 English for Engineering	3 credit units	3 credit units	3 credit units
GE1501 Chinese Civilisation – History and Philosophy	3 credit units	3 credit units	Not a compulsory requirement
<u>Distributional requirements</u> Area 1: Arts and Humanities Area 2: Study of Societies, Social and Business Organisations Area 3: Science and Technology	12 credit units # <i>(At least one course from each of the three areas)</i>	6 credit units <i>(From two different areas)</i>	3 credit units
<u>College/School-specified courses</u> ^	9 credit units	6 credit units	6 credit units
Total	30 credit units	21 credit units	12 credit units

Students are advised to take the below 2 Department-specified courses under GE Area: Science and Technology (facilitated by mechanical engineering professors) with 6 credit units out of 12 in total requirement to fulfill the Gateway Education requirement. The two courses will provide update information and fundamentals to ease students into the study of engineering courses in later years.

Department-specified courses for fulfilling the Gateway Education requirement

Course Code	Course Title	Level	Credit Units	Remarks
Normative 4-year Degree				
GE1321	Our Life in the Nuclear Age	B1	3	GE Area: Science and Technology
GE2301	Science and Technology: From Past to Future	B2	3	GE Area: Science and Technology

^ College/School-specified courses for fulfilling the Gateway Education requirement

Course Code	Course Title	Level	Credit Units	Remarks
Normative 4-year Degree				
MA1200/ MA1300	Calculus and Basic Linear Algebra I/ Enhanced Calculus and Linear Algebra I	B1	3	
MA1201/ MA1301	Calculus and Basic Linear Algebra II/ Enhanced Calculus and Linear Algebra II	B1	3	
CS1102/ CS1302	Introduction to Computer Studies/ Introduction to Computer Programming*	B1	3	*Subject to sufficient enrollments.

Advanced Standing I
<ul style="list-style-type: none"> Students who have <u>not</u> passed the MA placement test arranged by the Mathematics Department should take <i>MA1200 Calculus and Basic Linear Algebra I</i> (3 credit units) and <i>MA1201 Calculus and Basic Linear Algebra II</i> (3 credit units) as College-specified courses. Students who have passed the MA placement test arranged by the Mathematics department should take <i>MA1201 Calculus and Basic Linear Algebra II</i> (3 credit units) and <i>CS1102 Introduction to Computer Studies</i> <u>or</u> <i>CS1302 Introduction to Computer Programming*</i> (3 credit units) as College-specified courses. <p>*Subject to sufficient enrollments.</p>
Advanced Standing II (Senior-year Entry)
Take any courses not within the Major requirements (including Core Courses and Electives)

2.4 English Language Requirement

Normative 4-year degree students and Advanced Standing I students who passed the 6 credit units of specified GE English courses, and Advanced Standing II students who passed the 3 credit units of discipline-specific GE English course are recognized as fulfilling the University's English Language Requirement.

Students scoring below Level 4 in HKDSE English Language or Grade D in HKALE AS-level Use of English or students who do not possess an equivalent qualification are required to complete two 3-credit unit courses, EL0200A English for Academic Purposes 1 and EL0200B English for Academic Purposes 2, prior to taking the GE English courses. Students who demonstrate that they have achieved a grade B or above in their overall course results for EL0200A will achieve 3 credits and also be considered to have satisfied the pre-requisite for entry to the GE English courses without needing to take EL0200B. The credit units of EL0200A and EL0200B will not be counted towards the minimum credit units required for graduation and will not be included in the calculation of the cumulative grade point average (CGPA). However, they will be counted towards the maximum credit units permitted.

2.5 Chinese Language Requirement

Students scoring below Level 4 in HKDSE Chinese Language, or below Grade D in HKALE AS-level Chinese Language and Culture will be required to complete a 3-credit unit course CHIN1001 University Chinese I. The 3 credit units will not be counted towards the minimum credit units required for graduation and will not be included in the calculation of the cumulative grade point average (CGPA). However, they will be counted towards the maximum credit units permitted.

In addition to the above requirement, Colleges/Schools also have the discretion to specify other Chinese language courses for their students, including students who do not possess the above qualifications (Senate/70/MM27-28 refers). Please indicate if there are such requirements.

2.6 College/School Requirement, if any

(The catalogue term of the College/School requirement that students will follow will be the same as their admission term.)

Course Code	Course Title	Level	Credit Units	Remarks
Normative 4-year Degree (6 credit units)				
<i>Choose two from the following three subject areas:</i>				
<i>Physics</i>				
PHY1201 +	General Physics I	B1	3	
<i>Chemistry</i>				
BCH1100	Chemistry	B1	3	
<i>Biology</i>				
BCH1200	Discovery in Biology	B1	3	
Advanced Standing I (0 credit unit)				
College Requirement waived.				
Advanced Standing II (Senior-year Entry) (0 credit unit)				
College Requirement waived.				

+ Students belong to the Mechanical Engineering Department are advised to study PHY1201 (General Physics I) within their freshman year because majority physics course materials will be utilized in their later years of study of engineering.

2.7 Major Requirement

(The catalogue term of the major requirement that students will follow will be the effective term of the declared/allocated major.)

For normative 4-year degree students who will join the majors allocation exercise, the catalogue term of major requirement will be one year after admission.

For advanced standing students and 4-year degree students who already have a major at the time of admission, the catalogue term of major requirement will be the same as their admission term.)

2.7.1 Core Courses (72 or 75[#] credit units)

- **Advanced Standing I students:** **69 or 72 credit units[^]**
- **Advanced Standing II students:** **63 credit units[§]**

Course Code	Course Title	Level	Credit Units	Remarks
PHY1201	General Physics I	B1	3	# If not taken under College Requirements. Waived for students admitted with Advanced Standing
MA2172/ MA2177	Applied Statistics for Sciences and Engineering/Engineering Mathematics and Statistics	B2	3	Note: MA2172 for students admitted with Advanced Standing II
MNE2016	Engineering Graphics	B2	3	
MNE2020	Engineering Workshop Practice	B2	0	Waived for students admitted with Advanced Standing II
MNE2029	Electrical and Electronic Principles I	B2	3	
MNE2036	Engineering Computing	B2	3	
MNE2109	Engineering Mechanics	B2	3	
MNE2110	Engineering Materials	B2	3	
MNE2112*	Thermodynamics	B2	3	
MNE3007	CAD/CAM	B3	3	
MNE3010	Mechanical Design	B3	3	
MNE3046	Automation Technology	B3	3	
MNE3049	Control Principles	B3	3	
MNE3058	Embedded Control Systems	B3	3	
MNE3115	Microelectromechanical Systems	B3	3	
MNE3118	Mechanics of Materials	B3	3	
MNE3119	Manufacturing Technology	B3	3	
MNE3120	Measurement and Instrumentation	B3	3	
MNE3121	Heat Transfer	B3	3	
MNE3122*	Fluid Mechanics	B3	3	
MNE4010	Dynamics and Control	B4	3	
MNE4032	Robotics and Machine Vision	B4	3	
MNE4066	Professional Engineering Practice	B4	3	
MNE4068/ MNE4116	Project (Individual)/ Capstone Project II	B4	9	

* Course Code is subject to approval

Students under the Normative Four-Year Degree should complete PHY1201 if it is not taken towards fulfilling the College Requirement.

^ Up to 3 credit units of core courses are to be waived for students admitted with Advanced Standing I from the B2 level courses: MA2177, MNE2016, MNE2020, MNE2029, MNE2036, MNE2109, MNE2110 and MNE2112 based on the academic background of students.

§9 credit units of core courses are to be waived for students admitted with Advanced Standing II from the B2 level courses: MA2172, MNE2016, MNE2020, MNE2029, MNE2036, MNE2109, MNE2110 and MNE2112 based on the academic background of students.

2.7.2 Electives (9 credit units)

- Students with Advanced Standing I are required to complete at least 6 credit units of electives, in addition to credit units required to make up for exempted core courses.
- Students with Advanced Standing II are required to completed at least 3 credit units of electives, in addition to credit units required to make up for exempted core courses.

Course Code	Course Title	Level	Credit Units	Remarks
CS2311	Computer Programming	B2	3	
EE2109	Electronic Circuits	B2	3	
FS2001	Workshop-based Study in Science and Engineering	B2	3	
MA2001	Multi-variable Calculus and Linear Algebra	B2	3	
CS3402/ SEEM3040	Database Systems/ Engineering Database and Systems	B3	3	
EE3210	Signals and Systems	B3	3	
MA3001	Differential Equations	B3	3	
MNE3059	Intelligent Robot Design	B3	3	
MNE3063	Material Analysis for Product Quality	B3	3	
MNE3116	Capstone Project I	B3	3	
MSE3130	Biomaterials	B3	3	
SEEM3102	Quality Engineering	B3	3	
MNE4005	Finite Element Analysis	B4	3	
MNE4006	Consumer Mechatronics	B4	3	
MNE4046	Green Industrial Systems	B4	3	
MNE4047	Directed Studies	B4	3	
MNE4048	Advanced Manufacturing Technologies	B4	3	
MNE4110	Sensors	B4	3	
MNE4117	Product Development: Methodologies, Innovation and Management	B4	3	
SEEM4024	Project Management	B4	3	
SEEM4025	Quality Systems and Management	B4	3	
SEEM4064	Reliability Engineering	B4	3	
SEEM4043/ SEEM4106	Global Operations Management/ Operations Management of Production and Service Systems	B4	3	

2.8. Optional Courses

Course Code	Course Title	Credit Units	Remarks
FS4001	Co-operative Education Scheme (CES)	8	Internship (8 months)
FS4002	Industrial Attachment Scheme (IAS)	3	Internship (9 to 12 weeks)

2.9 Classification of Award

Award Classification	CGPA
First Class Honours	CGPA 3.5 or above
Upper Second Class Honours	CGPA 3.00 – 3.49
Lower Second Class Honours	CGPA 2.50 – 2.99
Third Class Honours	CGPA 2.00 – 2.49
Pass	CGPA 1.70 – 1.99

3. ACADEMIC REGULATIONS AND GUIDELINES

Students should observe the University's academic regulations and guidelines at all times. More information can be available by referring to the following website maintained by the Academic Regulations and Records Office (ARRO).

ARRO Homepage: <http://www.cityu.edu.hk/arro>

4. ACADEMIC HONESTY

Academic honesty is central to the conduct of academic work. Students are responsible for knowing and understanding the Rules on Academic Honesty. As part of the University's efforts to educate students about academic honesty, all students are required to complete an online tutorial, take an online quiz and fill out an online declaration by **30 November 2019** in order to access their course grades online.

For details, please refer to Office of the Provost's website:

http://www.cityu.edu.hk/provost/academic_honesty/university_requirement_on_academic_honesty.htm

5. COMMUNICATIONS

Listed below are the normal channels of communication between students and courses / major / department :

- a) Students having difficulties in a course of study should first talk to the course teacher concerned.
- b) A student who wishes to discuss the overall organization of the major should speak to the Major Leader.
- c) A student who wishes to discuss issues on a particular part of the major should speak to the relevant Year Tutor.
- d) The major's Joint Staff & Student Consultative Committee helps to facilitate consultation and communication. A student from each entry cohort will be elected to sit in the Committee.
- e) In addition, a student from each entry cohort will be elected to sit in the Major Programme Committee which meets every semester to discuss major-related matters.
- f) Students should feel free to approach their respective academic advisors for advice regarding their study plan or personal and career development.

6. MAJOR LEADER AND YEAR TUTORS

<u>Position</u>	<u>Staff Name</u>	<u>Tel/Email</u>
Major Leader	Dr. Kaili ZHANG	3442-7845/ kaizhang@cityu.edu.hk
Deputy Major Leader	Dr. Xinrui NIU	3442-8432/ xinrui.niu@cityu.edu.hk
<u>Year Tutors (By Cohort and Programme Code):</u>		
2016 BENGEGU4 & 2017 BENGEGU3/ ASI & 2018 BENGEGU2/ ASII	Dr. Wei Yin MA	3442-9548/ mewma@cityu.edu.hk
2017 BENGEGU4 & 2018 BENGEGU3/ ASI & 2019 BENGEGU2/ ASII	Dr. Zhengbao YANG	3442-2308/ zb.yang@cityu.edu.hk
2018 BENGEGU4 & 2019 BENGEGU3/ ASI	Dr. Steven WANG	3442-9527/ steven.wang@cityu.edu.hk

7. INFORMATION FOR NEW STUDENTS

7.1 How to access your Personal Class Schedule

- i) Go to CityU home page (www.cityu.edu.hk) from any terminal on campus or off campus.
- ii) Log onto “Portal” under “Quick Links”.
If you have problems in logging in, please follow the instructions in “Having problems logging?”.
- iii) Under the tab “Student”, you can find a quick link “Student Schedule” to view your timetable for current semester. Timetable for Semester A 2019/20 is available from 30 July 2019 onwards.

7.2 How to get Instructors’ handouts through Canvas

- i) Log onto Canvas (<https://canvas.cityu.edu.hk>) from any terminal on campus or off campus
- ii) Click “Courses” to see all courses you have registered in current and previous semesters.

7.3 How to check Major Requirement and Course Syllabuses

Log onto the CityU home page and click “Academic Programmes”.

To access DegreeWorks, please go to the “Study Plan” tab in AIMS. For details, please refer to ARRO website: www6.cityu.edu.hk/arro/content.asp?cid=482

7.4 Course Registration for Semester A 2019-2020

For Semester A 2019-2020, students will be pre-registered in required courses and major electives in most cases if possible.

- i) The date for release of your class schedule is **30 July 2019**. Please check your curriculum requirements, review your study plan and then make appropriate adjustments to your pre-registered courses.
- ii) Add/Drop of courses can be made through AIMS for web-enabled courses during the web registration period. For non-web-enabled courses, approval is required from the major department and you can submit your change request by using the Add/Drop Form.

How to do the Add/ Drop:

- Go to <http://www.cityu.edu.hk> from any terminal on campus or off campus and click “Students”.
- Log onto “AIMS” and then click “Course Registration”.
- Choose “Add or Drop Classes”.

- iii) Web registration begins on **19 August 2019** but you need to check your time ticket first from “AIMS”.
- iv) All add/drops end on **9 September 2019**.

- v) Detailed arrangements on Course Registration for Semester A 2019-2020 will be posted by **30 July 2019**. For details, please refer to ARRO website:
<http://www.cityu.edu.hk/arro/content.asp?cid=163>

7.5 How to access your Student Email Account

- i) Go to <http://www.cityu.edu.hk> from any terminal on campus or off campus, then point to “Quick Links” at the top and click “Email”.
- ii) In the Email Services homepage, click “@my.cityu.edu.hk” under “Student” to go to the CityU “Office 365” Sign In page.
- iii) At the “**Account-ID**” field in the Sign In screen, enter your Office 365 account in the form of “YourEID-c”, where *YourEID* is your CityU Electronic ID.
- iv) At the “**Password**” field, enter your Office 365 Account password, then click “Log On”.

Important note:

*For email communication, please state your **name in full**, **student number** and **contact telephone number**.*

7.6 Course Exemption/Credit Transfer

Applications for course exemption or credit transfer must be made before the first semester of the student’s admission. Students granted course exemption are required to take other courses to make up the credits required for fulfilling the award requirements. For Semester A 2019-2020, the application period is **from 15 July to 31 August 2019**. For details, please refer to ARRO website:
<http://www6.cityu.edu.hk/arro/content.asp?cid=10>

7.7 Laboratory Safety Orientation

All students are REQUIRED to complete the on-line Laboratory Safety Orientation through the Departmental On-line Information System (IntraMEL). A Lab Tour session will be held by the Laboratory Office in week 1 of Semester A 2019-20 for interested students. Details of the session will be sent to you by e-mail.

7.8 Administrative Support from General Office

Office Hours

Mon to Fri 8:30 am to 5:30 pm
Lunch Break 12:30 pm to 1:45 pm

Inquiry: 3442-2067
Fax: 3442-0235
Email: mnego@cityu.edu.hk

Suggested Study Path

Suggested Study Path for BENGEGU4 M.E. 2018 Cohort

Yr	Sem	College Requirements	Gateway Education (GE): College/School-specified Courses		GE: English®	Gateway Education & Others	CUs
1	A	Science 1 (3)	MA1200 Calculus and Basic Linear Algebra I/ MA1300 Enhanced Calculus and Linear Algebra I (3)		GE1401 University English (3)	GE 1 (3)	15
	B	Science 2 (3)	MA1201 Calculus and Basic Linear Algebra II/ MA1301 Enhanced Calculus and Linear Algebra II (3)	CS1102 Introduction to Computer Studies / CS1302 Introduction to Computer Programming (3)	GE2410 English for Engineering (3)	GE 2 (3)	15
	S			Reserved for missed courses, if available / Reserved for missed courses		Reserved for missed courses	
Major Requirements							
2	A	MNE2110 Engineering Materials (3)	MNE2016 Engineering Graphics (3)	MNE2112 Thermodynamics (3)	MA2177 Engineering Mathematics and Statistics (3)		15
	B	MNE2109 Engineering Mechanics (3)	MNE3119 Manufacturing Technology (3)		MNE2036 Engineering Computing (3)	MNE2029 Electrical and Electronic Principles I (3)	15
	S					Reserved for missed courses	
3	A	MNE3118 Mechanics of Materials (3)	MNE3007 CAD/CAM (3)	MNE3120 Measurement and Instrumentation (3)	MNE4010 Dynamics and Control (3)	MNE3115 Microelectromechanical Systems (3)	15
	B	MNE3010 Mechanical Design (3)	Major Elective 1 (3)	MNE3122 Fluid Mechanics (3)		MNE3049 Control Principles (3)	15
	S				Reserved for IAS or taking some Elective courses, if available / Reserved for missed courses	Major Elective 2 (3)	
4	A	MNE4068 Project (3)	MNE4066 Professional Engineering Practise (3)			MNE3046 Automation Technology (3)	15
	B	MNE4068 Project (6)		MNE3121 Heat Transfer (3)	MNE3058 Embedded Control Systems (3)	MNE4032 Robotics and Machine Vision (3)	15
	S				Reserved for missed Elective courses, if available / Reserved for missed courses	Free Elective (3) [#] Reserved for missed courses	
						Total credits (minimum): 120	

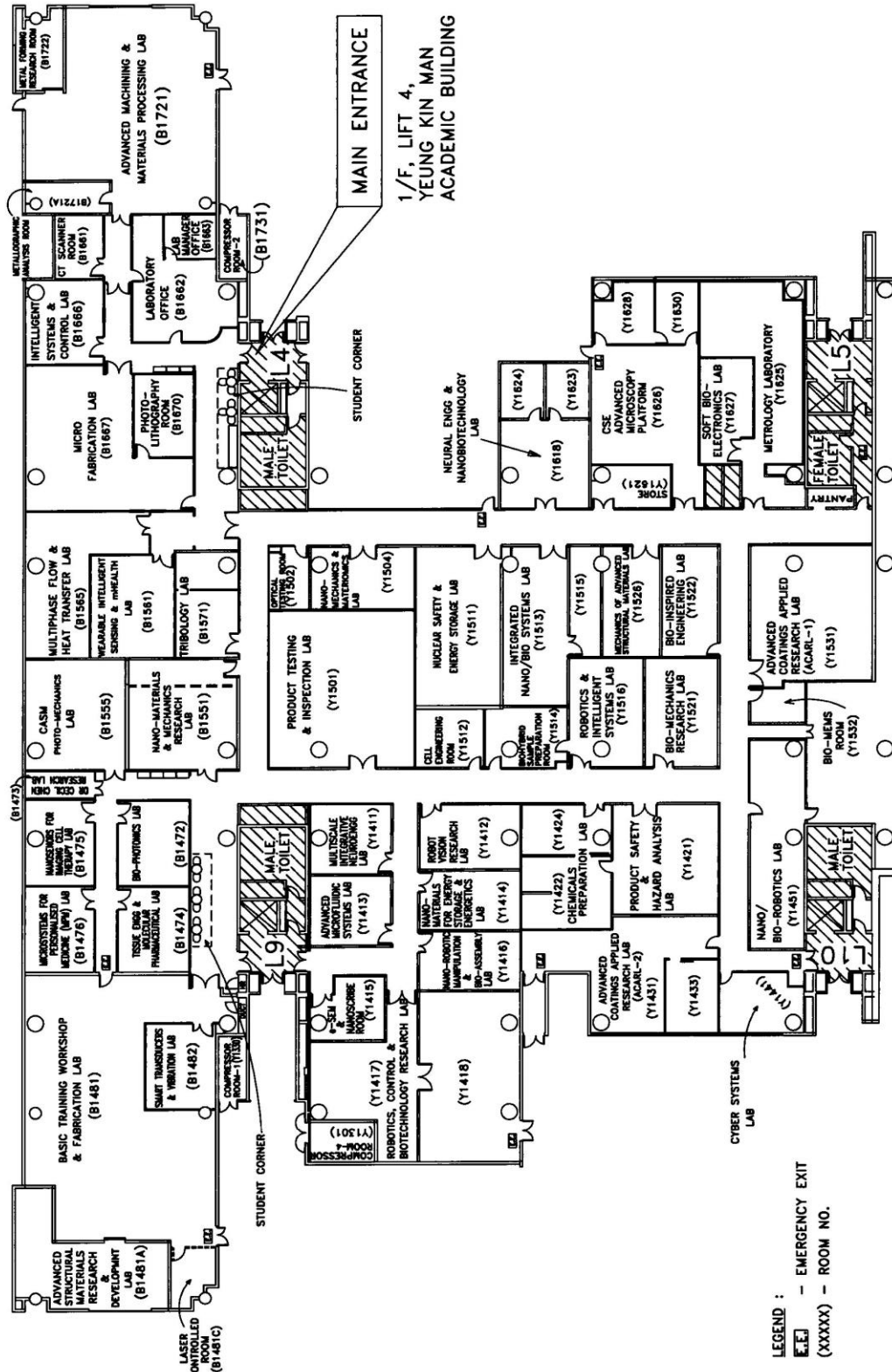
® Students whose entry qualifications in HKDSE English Language is below Level 4 are required to take EL0200A and EL0200B, and should take the GE English courses in the following semesters/terms. Furthermore, students who demonstrate an overall grade B or above in the EL0200A course will be granted an exemption from taking EL0200B, and will be considered to have fulfilled the pre-requisite requirement for the GE1401 (University English) course. These students will be permitted to proceed directly to the GE University English course.

[#] Students should complete PHY1201 if it is not taken as Science 1 and Science 2. Those who are not required to take PHY1201 should take 3 credit units of Free Elective.

* MNE2020 should be taken in Year 2 during Semester A, Semester B, or Summer Term depending on the allocation and availability of workshop training places.

Students are advised to consult their Academic Advisor in planning their own study paths. Please note that study path planning is both the privilege and responsibility of each student, so do it with care and diligence. Please refer to Student Handbook for further details.

Mechanical Engineering(MNE) and Biomedical Engineering Laboratories (BME) on 1/F YEUNG



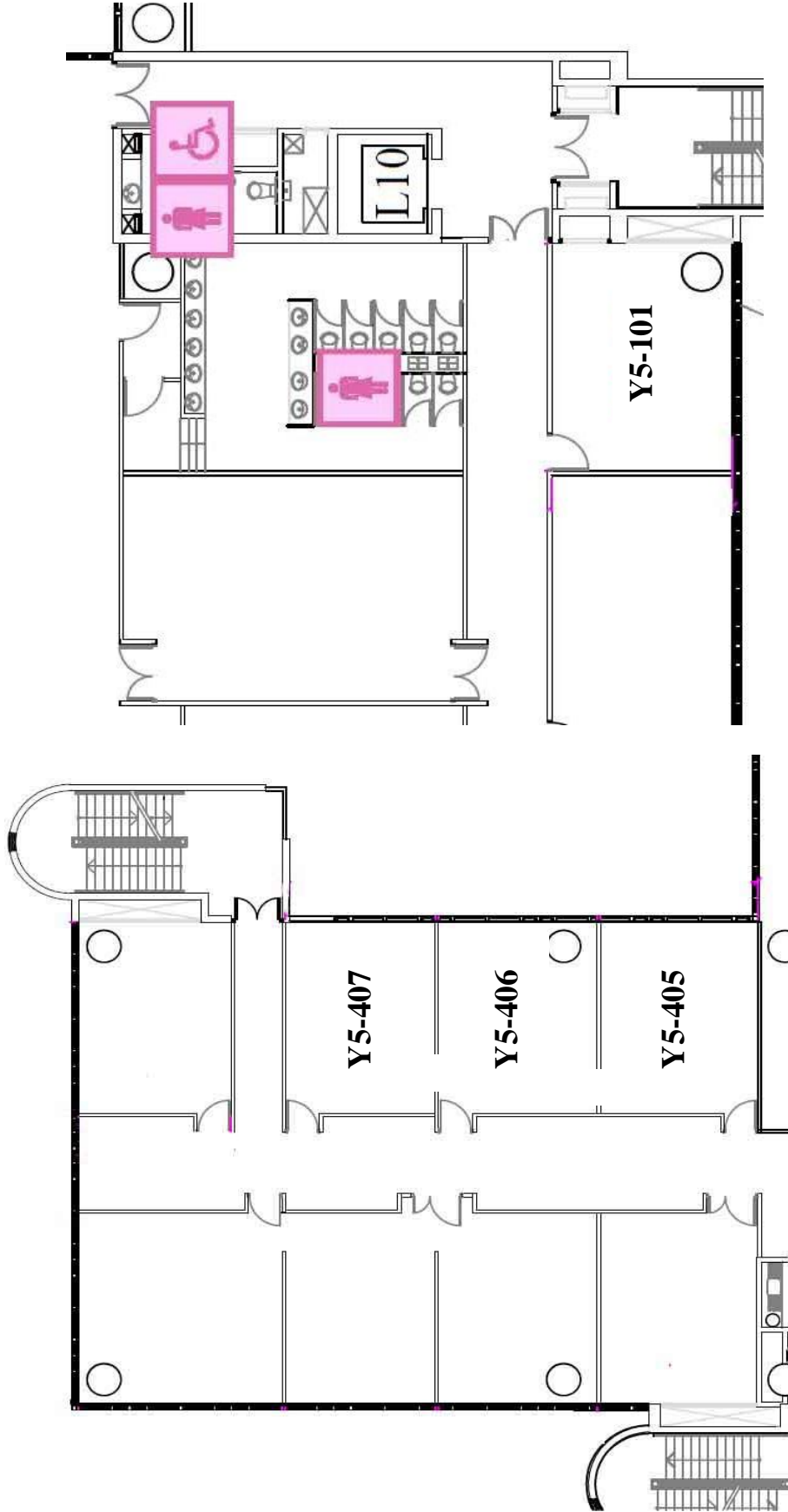
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CCL		
DATE	REVISION	
22-MAY-2019	W14	

LEGEND :
 E.E. - EMERGENCY EXIT
 (XXXXX) - ROOM NO.

LABORATORIES OPENING HOURS

MONDAY TO FRIDAY	9:00AM-12:30 PM	&	1:30PM-5:15PM
(ON SCHEDULED EVENING ONLY)	6:30PM-10:00PM		
SATURDAY	9:00AM-12:30PM		
SUNDAY & PUBLIC HOLIDAYS	CLOSED		

Mechanical Engineering (MNE) Laboratories on 5/F YEUNG

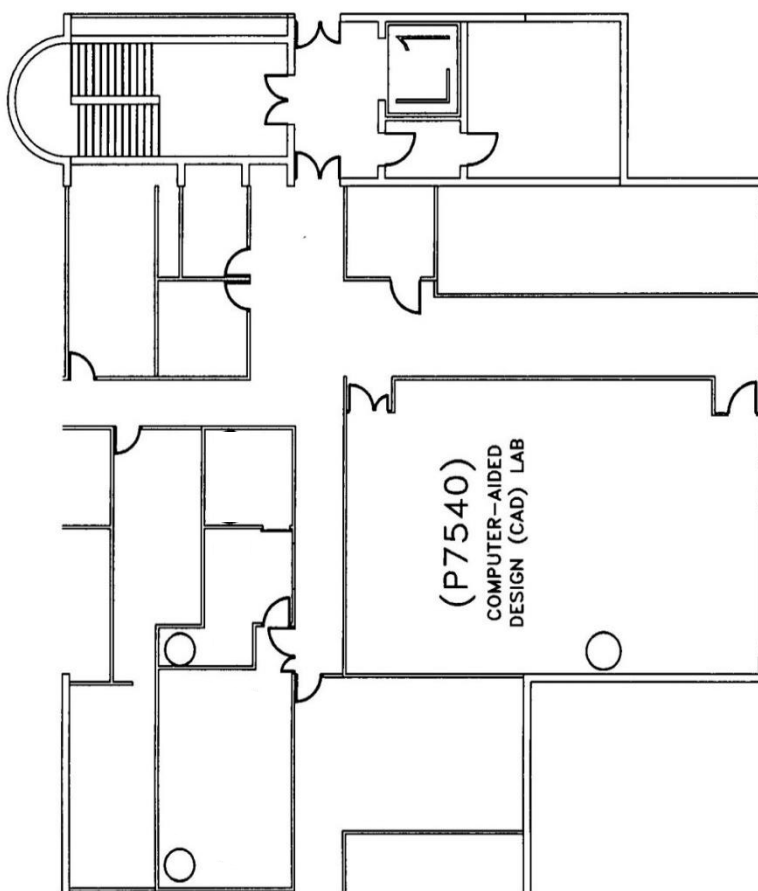


**Rm. Y5405/Y5406/Y5407
Mechanics and Tribology Laboratory**

**Rm. Y5101
Thermal-fluids Laboratory**

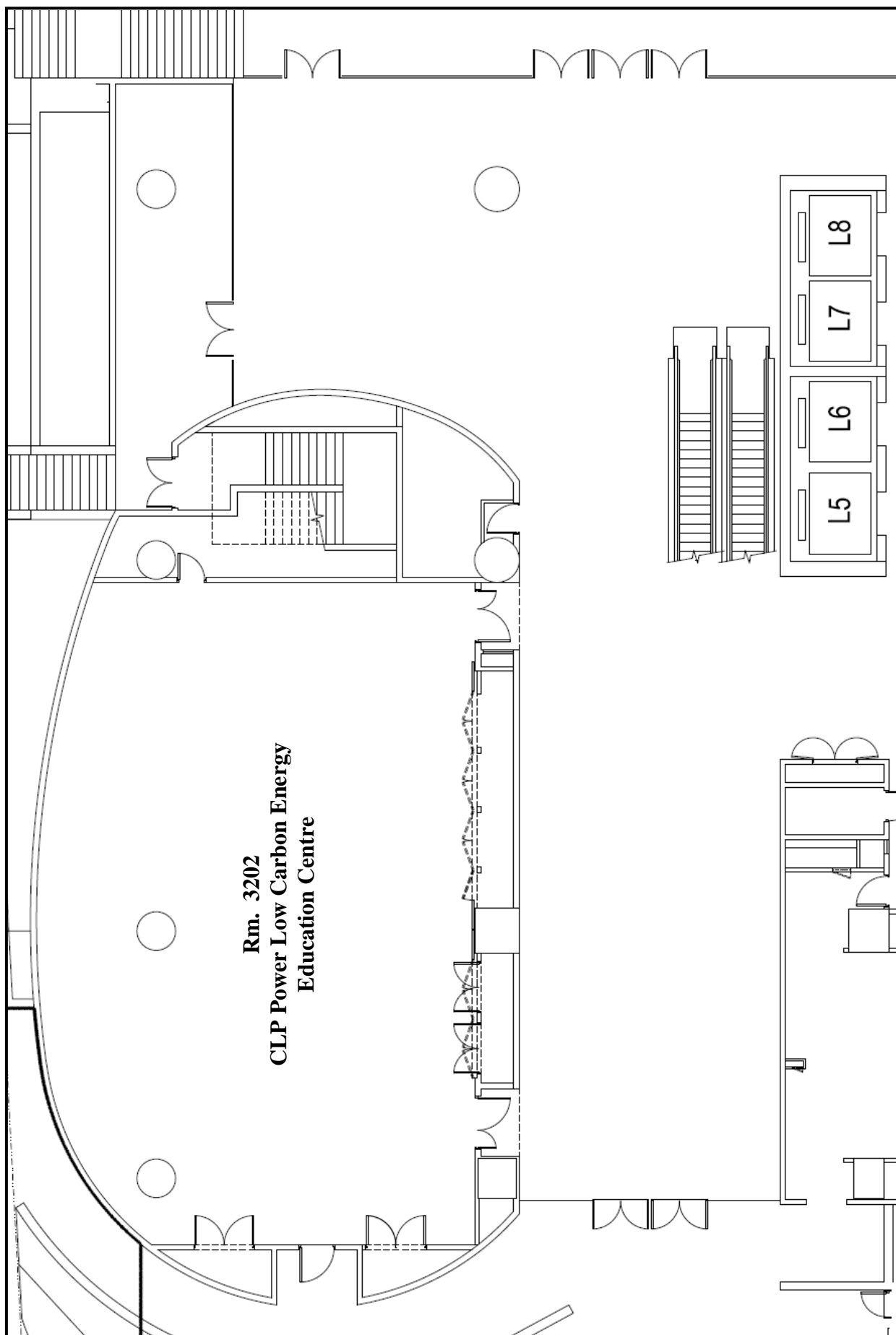
Mechanical Engineering (MNE) Laboratories on 7/F YEUNG

7/F, LIFT 1, PURPLE ZONE,
YEUNG KIN MAN
ACADEMIC BUILDING

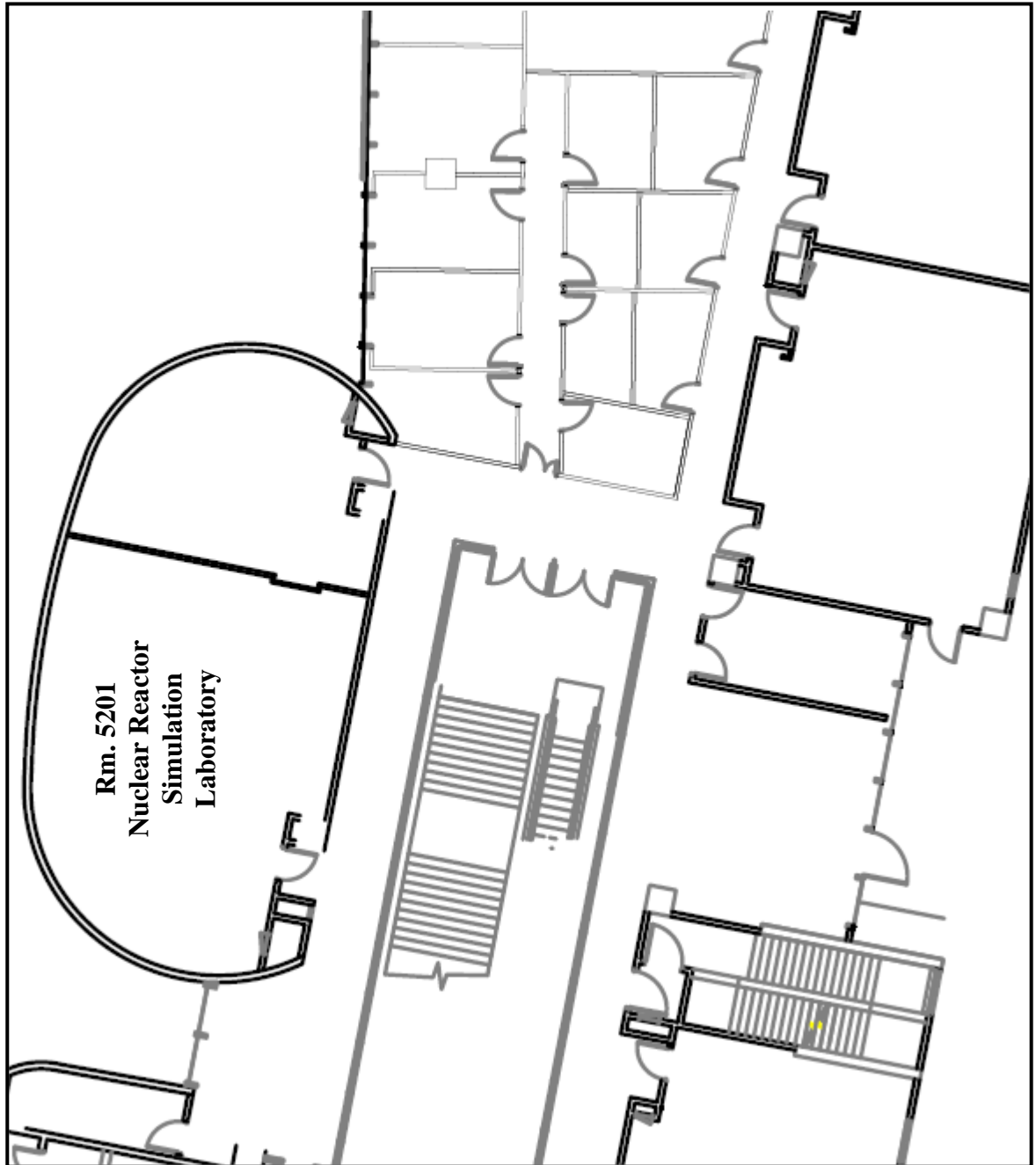


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REVISION	03-JUL-2018	
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Mechanical Engineering (MNE) Laboratories on 3/F LAU



Mechanical Engineering (MNE) Laboratories on 5/F LAU



Mechanical Engineering (MNE) Laboratories on 6/F LJ

