

Dr. J. J. J.

Faculty of Architecture

King Mongkut's Institute
of
Technology



Dr. Dr.
rel. Dr. Dr.

GENERAL INFORMATION

BULLETIN 1973-1975

Let's see
to find it

BULLETIN 1973-1974

Faculty of Architecture was originally a school of advanced training for designers and builders, and since 1963 the school had been developed to a higher status, the level of technical institute, called College of Design & Construction at Bangkok Thanburi, with appropriate improvements in curricula and extensions of programs. The college had offered instruction at a three-year diploma level in the fields of Architecture, Architectural Engineering, Interior Design, Industrial Design, Highway Engineering, Survey Engineering and Special Vocational Studies. Landscape Architecture, Environmental Design and Regional Planning would be provided in future expansion programs.

The rapid growth of the College in the few years from the beginning reflected the urgent needs for technical trained personnel in the drive for a greater rate of economic growth and development of the country. These needs had been well recognized by the Government, and the expansion of the college was initiated and carried out as an integral part of the National Educational Plan.

The College has everything in readiness for further steps with improvements, well qualified teaching staffs and new campus with building extensions in the area of 30 Rai at Ladkrabang District.

GENERAL INFORMATION

According to a Government Order, the College of Design & Construction has been legally affiliated with higher status as Faculty of Architecture in the recently established Campus of King Mongkut's Institute of Technology since October 1, 1972.

Faculty of Architecture was originally a school of advanced training for designers and builders, and since 1963 the school had been developed to a higher status, the level of technical institute, called College of Design & Construction at Bangplad Thonburi, with appropriate improvements in curricula and extensions of programs. The college had offered instruction at a three-year diploma level in the fields of Architecture, Architectural Engineering, Interior Design, Industrial Design, Highway Engineering, Survey Engineering and Special Vocational Studies. Landscap Architecture, Environmental Design and Regional Planning would be provided in future expansion programs.

The rapid growth of the College in the few years from the beginning reflected the urgent needs for technical trained personnel in the drive for a greater rate of economic growth and development of the country. These needs had been well recognized by the Government, and the expansion of the college was initiated and carried out as an integral part of the National Educational Plan.

The College has everything in readiness for further steps with improvements, well qualified teaching staffs and new campus with building extensions in the area of 80 Rai at Ladkrabang District.

According to a fulfilled plan of mentioned development, College of Design & Construction has been legally affiliated with higher status as Faculty of Architecture in the recent established Campus of King Mongkut's Institute of Technology since October 1, 1972.

PHILOSOPHY AND OBJECTIVES

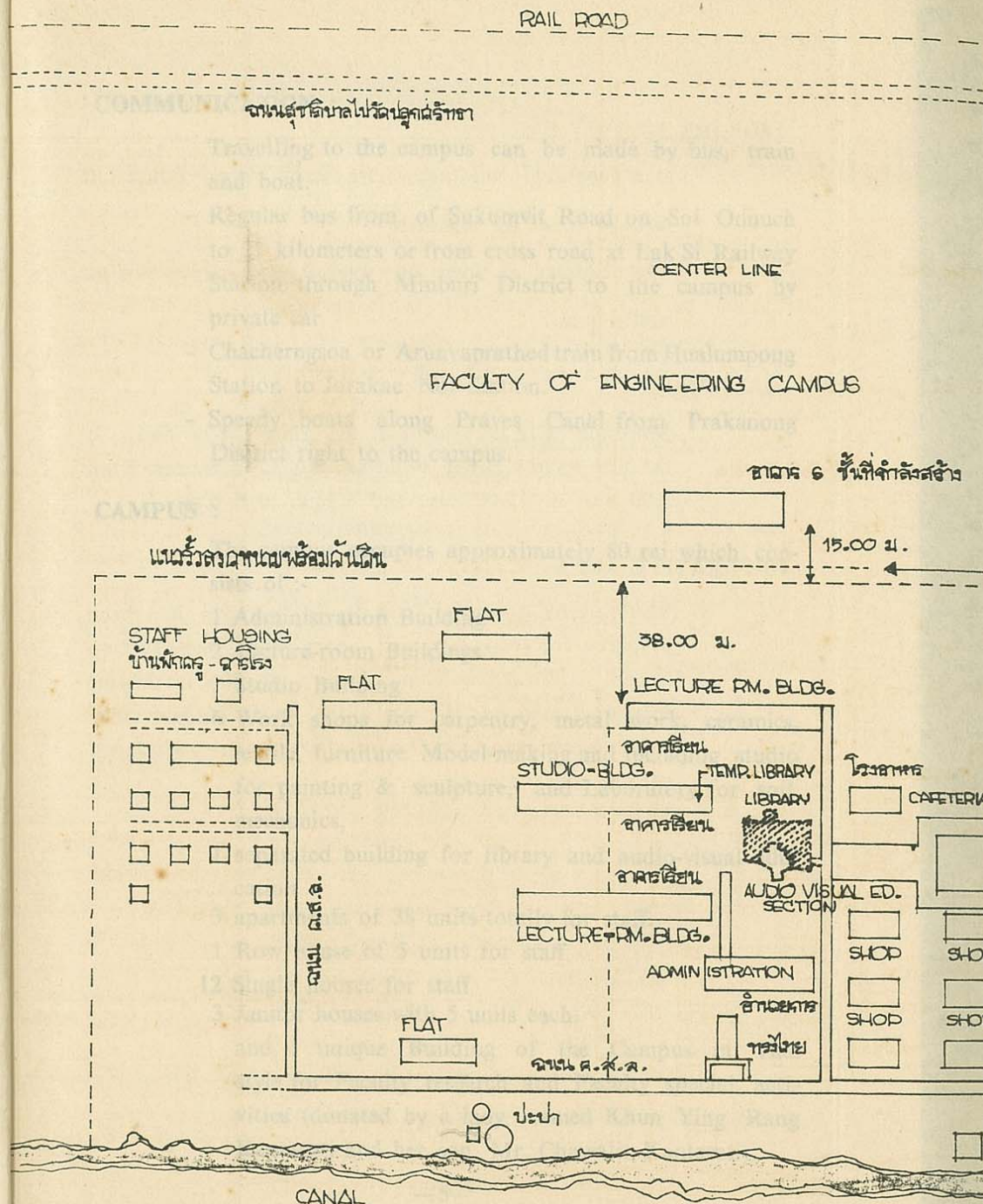
The Faculty of Architecture, King Mongkut's Institute of Technology provides architectural Education of the recognized standard through :-

- (1) academic program leading to a three-year curriculum towards the higher certificate of three different vocational fields (equivalent to a university diploma degree) in architecture, interior design and industrial design ;
- (2) (after a three-year curriculum termination) an opened entrance examination leading to the degree of Bachelor of Architecture and also leading to the degree of Bachelor of Industrial Education on the basis of the two more year curriculum with three major fields mentioned above ;
- (3) research by students, faculty staff directed towards the solution of architectural problems relevant to Thailand.

The faculty was established to emphasize the architectural technology directed towards the solution of launching the architects who specialize in architectural practice and building construction management as well as tropical architecture.

POSTAL ADDRESS :

Faculty of Architecture
King Mongkut's Institute of Technology
Ladkrabang District
Bangkok/Thailand.



LAY OUT PLAN OF FACULTY OF A

RAIL ROAD

TO CHACHERINGSOA

ทางรถไฟไปวัดป่าสัก

CENTER LINE

FACULTY OF ENGINEERING CAMPUS

อาคาร 6 ชั้นที่จำลองสร้าง

15.00 ม.

แนวรั้วสวนสาธารณะ

จะเป็นถนน ค.ส.ล. ในอนาคต

STAFF HOUSING

บ้านพักครู - อาจารย์

FLAT

38.00 ม.

LECTURE RM. BLDG.

STUDIO-BLDG.

อาคารเรียน

อาคารเรียน

อาคารเรียน

LECTURE RM. BLDG.

ADMINISTRATION

อาคาร

ทอผ้า

CAFETERIA

AUDIO VISUAL ED. SECTION

SHOP

SHOP

SHOP

SHOP

FLAT

ถนน ค.ส.ล.

ปะปา

CANAL

CHAOXHUNTAHARN AGRICULTURE SCHOOL

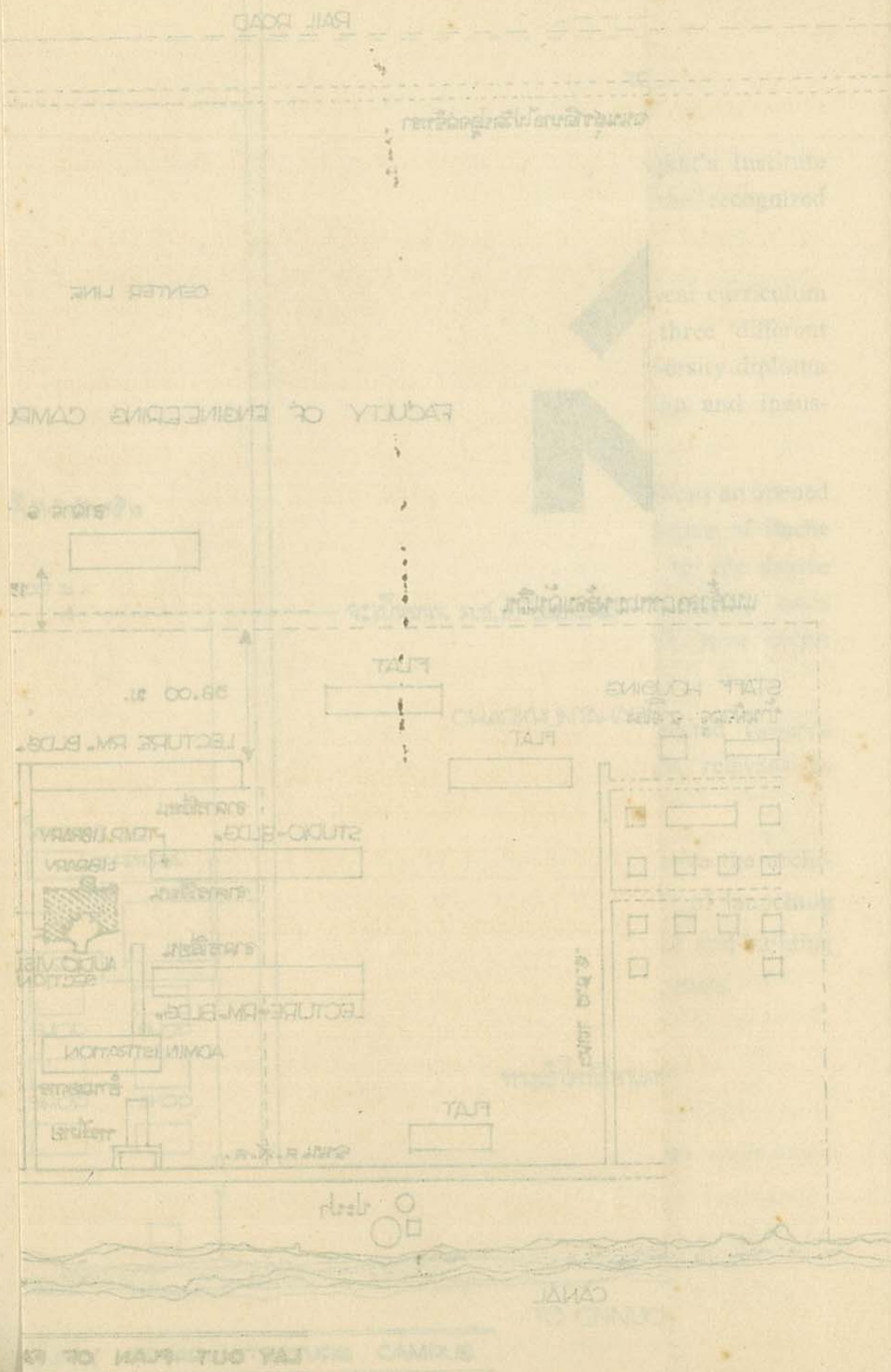
ทางเข้าโรงเรียนเกษตรกรรมเจ้าคุณทหาร

คลอง

TO ONNUCH RD.

ไปตลาด

LAY OUT PLAN OF FACULTY OF ARCHITECTURE CAMPUS



COMMUNICATION :

Travelling to the campus can be made by bus, train and boat.

- Regular bus from of Sukumvit Road on Soi Onnuch to 21 kilometers or from cross road at Lak Si Railway Station through Minburi District to the campus by private car
- Chacherngsoa or Arunyapraphed train from Hualumpung Station to Jorakae Noi Station.
- Speedy boats along Praves Canal from Prakanong District right to the campus.

CAMPUS :

The campus occupies approximately 80 rai which consists of :-

- 1 Administration Building
- 2 Lecture-room Buildings
- 1 Studio Building
- 6 Work shops for carpentry, metal work, ceramics, textile, furniture Model-making, and including studio for painting & sculpture, and Laboratory for soil mechanics,
- 1 separated building for library and audio-visual education
- 3 apartments of 38 units totally for staff.
- 1 Row house of 5 units for staff
- 12 Single houses for staff
- 3 Janitor houses with 5 units each.

and 1 unique Building of the Campus in Thai style for Faculty research and Faculty special activities (donated by a lady, named Khun Ying Rang Kantarati and her son, Mr. Chawalit Kantarati).

LIBRARY :

is a separated building, where Audio-Visual Education

Section is set up together.

The Library is open on week-days between 9 a.m.

and 4 p.m.

MATERIALS

Materials may be bought at the shop open daily in the first lecture room building during semester from 9.00 a.m. to 12.00 a.m. and 1 p.m. to 4 p.m.

RECREATIVE AREA :

Vast selected space of land in the campus has been prepared for recreation and sport when construction budget is allowed in view of future. Besides interesting recreative area on the site of the canal, students may enjoy water sport in the canal such as :- swimming, rowing, and water skiing.

ACADEMIC YEAR AND HOLIDAYS

ACADEMIC YEAR

Each academic year comprises 2 semesters.

First Semester is from the beginning of June to October 20.

- Admittance and Registration as well as Orientation are completed within the first two weeks.
- All courses begin at the beginning of the third week of June.
- First Semester Examination takes place in the second week of October.

Second Semester is from November to the end of March.

- The first week of November is provided for Registration
- At the beginning of November all courses begin.
- Second Semester Examination takes place in the second week of March.

HOLIDAYS

1. Religious Holidays during semesters are in February and July.
2. H.M. The Queen's Birthday (Aug. 12)
3. King Chulalongkorn's day (Oct. 23)
4. H.M. The King's Birthday (Dec. 5)
5. Constitutional Day (Dec. 10)
6. New Year's Eve (Dec. 31)
7. New Year's Day (Jan 1)
8. Compensation Holidays (if any Holiday falls on Saturday or Sunday, the next Monday is usually compensated.)

ACADEMIC CALENDAR 1973

First Semester

1973

June 1, Friday	} Health Examinations
June 4, Monday	
June 6, Wednesday	Admittance and Registration for 1 st year students
June 7, Thursday	Admittance and Registration for 4 th year students
June 8, Friday	Orientation for 1 st year students Summer Course Exam. Result
June 11, Monday	Orientation for 4 th year students
June 12, Tuesday	} Registration for 2 nd , 3 rd and 5 th year students
June 13, Wednesday	
June 18, Monday	First Semester Course begin
July 2, Monday	Last day of Course Transfer
July 12, Thursday	Paying Homage traditional Ceremony of students to lecturers
July 16, Monday	Religious Holiday
July 30, Monday	Last day for Withdrawal
August 13, Monday	Compensation Holiday for H.M. The Queen's Birthday (Sunday, Aug. 12)
October 10, Wednesday	} First Semester Exam.
to	
October 18, Thursday	
October 19, Friday	First Semester ends

Second Semester

1973

November 8, Thursday	} Registration
November 9, Friday	
November 12, Monday	Second Semester Courses begin
November 26, Monday	Last day of Course Transfer
December 5, Wednesday	Holiday (H.M. the King's Birthday)
December 10, Monday	Holiday (Constitution Day)
December 24, Monday	Last day for Withdrawal
December 31, Monday	Holiday (New Year's Eve)

1974

January 1, Tuesday	Holiday (New Year's day)
February	Religious Holiday (Maka-Bucha)
March 13, Wednesday	} Second Semester Exam.
to	
March 21, Thursday	
March 29, Friday	Second Semester Ends.

The next academic calendars are similar to that of 1973.

ACADEMIC CALENDAR 1973

First Semester

1973

June 1, Friday

June 4, Monday

June 6, Wednesday

June 11, Sunday

June 12, Monday

June 13, Tuesday

June 14, Wednesday

June 15, Thursday

June 16, Friday

June 17, Saturday

June 18, Sunday

June 19, Monday

June 20, Tuesday

June 21, Wednesday

June 22, Thursday

June 23, Friday

June 24, Saturday

June 25, Sunday

June 26, Monday

June 27, Tuesday

June 28, Wednesday

June 29, Thursday

June 30, Friday

Second Semester

1973

November 8, Thursday

November 9, Friday

November 12, Monday

November 20, Monday

December 2, Wednesday

December 10, Monday

December 24, Monday

December 31, Monday

1974

January 1, Tuesday

February 13, Wednesday

March 21, Thursday

March 29, Friday

First Semester

First Semester

The next academic calendars are similar to that of

1973.

ACADEMIC INFORMATION

Three-year Courses: Applicants must have successfully completed twelfth grade or equivalent, and must take an entrance examination administered by The State University Bureau and the Institute.

Two-year Courses: Applicants must hold a diploma in technology in a specific field, one semester to further his study. All examinations administered by the Institute.

Registration: Candidates securing admission are required to register at the Faculty prior to the commencement of classes in the second week of June. Late registration within a grace period is permitted but a fine will be levied. Each student can select courses of study in consultation with and subject to approval of the staff member acting as advisor. Only having completed Registration, the student is permitted to attend the class.

Course Transfer and Withdrawal: Course transfer and course withdrawal can be done within two weeks and six weeks respectively. Withdrawal must be completed by filling the course-transfer or withdrawal form at the Registrar's Office.

APPLICATION

Three-year Courses : Applicants must have successfully completed twelfth grade or equivalent, and must take an entrance examination administered by The State Universities Bureau and the Institute.

Two-year Courses : Any applicant must hold a diploma (Bachelor Degree level) in technology in specific field, one prefers to further his study. All applicants must take entrance-examinations administered by the Institute.

REGISTRATION

Candidates securing admission are required to register at the Faculty prior to the commencement of classes in the second week of June. Late registration within a grace period is permitted but a fine will be levied. Each student can select courses of study in consultation with and subject to approval of the staff member acting as adviser. Only having completed Registration, the student are permitted to attend the class.

COURSE TRANSFER AND WITHDRAWAL

Course transfer and course withdrawal can be done within two weeks and six weeks respectively after the class commencement by filling the courses-transfer or withdrawal form at the Registrar's office

GRADING SYSTEM

A report of semester and accumulative grades is recorded under the following system:

A	Excellent.....	4	grade points per credit hour
B	Good.....	3	grade points per credit hour
C	Fair.....	2	grade points per credit hour
D	Weak.....	1	grade point per credit hour
F	Failure.....	0	grade point per credit hour
Fa	Failed -- insufficient attendance.....	0	grade point per credit hour
Fe	Failed -- absent from examination.....	0	grade point per credit hour
Fw	Failed -- Late withdrawal.....	0	grade point per credit hour
W	Withdrawal.....	See explanation	
I	Incomplete.....	See explanation	
S	Satisfactory.....	See explanation	
U	Unsatisfactory.....	See explanation	

Withdrawal is assigned to a student who withdraws from a course without penalty, i.e. within the given period.

Incomplete is given to a student whose work has not been completed because of illness or other inevitable circumstances. An incomplete grade must be removed during the semester which follows, otherwise the grade is automatically changed to F.

Satisfactory is given to a student in a course, for which a grade point is not assigned in the curriculum, or Unsatisfactory but such a course must be completed with a Satisfactory grade in order to graduate.

DEFINITION OF TERMS

- Adviser :** Each student admitted to the Faculty is assigned to a particular faculty member who acts as his adviser. The adviser will guide him in course selection from semester to semester and counsels him regarding academic and personal problems.
- Semester :** Each academic year comprises two semesters of 18 week duration, the first from June to October, and the second from November to March.
- Period :** Each period is 50 minutes long. A full-time student may carry a maximum load of 40 periods per week, subject to consent of his adviser.
- Credit :** One credit represents one lecture period for one semester, or two to three periods of laboratory or workshop practice for one semester.

Grade Point Average : A numerical index of the student's scholastic average. Points are assigned to each letter grade (see GRADING SYSTEM) for each credit. For example, a grade of A in a class carrying 3 credit hours would be assigned 12 grade points (3×4), and grade C in a class carrying 4 credit hours would be assigned 8 grade points (4×2).

The grade point average is obtained by dividing the total number of accumulated grade points by the total number of attempted credits. In the example cited the grade point average would be

$$\frac{\text{accumulated grade points}}{\text{attempted credits}} = \frac{20}{7} = 2.85$$

The total number of credits includes credit hours for courses which are repeated following a grade of D or E and credit hours for courses in which a grade of E has been received.

Semester Index : Semester index indicates the overall performance of the student in a semester, and is equal to the sum of the products of credits and grade points of each course divided by the total number of credits taken in that semester.

Cumulative Index : This is an index similar to the semester index but cumulated over the student's entire career at the Faculty.

ACADEMIC STANDARDS

1 Each field of study offers a program such that a student may qualify for a diploma in a minimum time of residence of six semesters or three academic years, and for a bachelor degree in an additional minimum time of residence of four semesters or two academic years.

2. Full-time students are required to take at least 12 credits in each semester, except third year or fifth year students whose total remaining courses in the semester less than 12 credits. The minimum final cumulative index for entitlement to a diploma or a degree is 2.00.

3. A student who has a cumulative grade point average below 1.00 will be dismissed from the Faculty.

4. A student whose cumulative index falls below 2.00 shall be automatically placed on probation. If his semester index is lower than 2.00 during the period of probation, he shall be dismissed from the Faculty.

5. If a student has completed all the prescribed courses for a diploma but fails to attain the required cumulative index of 2.00 he shall be permitted to continue up to a maximum of two semesters to raise his index by retaking courses previously completed with grade D. and/or by taking other courses approved by the Faculty. If he, after such grace, fails to reach the minimum cumulative index of 2.00, he shall not be allowed to continue his study in the Faculty.

6. For each subject of study in a semester, a minimum attendance of 80 per cent is required, otherwise a student will not be permitted to take the final examination and will be given an F grade.

7. A student with disciplinary problems assessed at higher than 20 marks in a semester shall not be allowed to take examinations.

REQUIREMENTS FOR GRADUATION

Students are eligible for graduation at the end of any semester when all requirements of the specific curriculum chosen are satisfactorily completed.

A. Ordinary degree

1. A student must have passed all courses of a curriculum
2. A student must earn a cumulative grade point average of at least 2.00.

B. Second Class Honors

1. A student must have passed all courses of a curriculum with 4 regular semesters and must not have failed any course.
2. A student must earn a cumulative grade point average of at least 3.00.

C. First Class Honours

1. A student must have passed all courses of a curriculum with 4 regular semesters and must not have failed any course.
2. A student must earn a cumulative grade point average of at least 3.50.

FACULTY BOARD AND STAFF

REQUIREMENTS FOR GRADUATION

Students are eligible for graduation at the end of any semester when all requirements of the curriculum chosen are satisfactorily completed.

1. A student must have passed all courses of a curriculum.

2. A student must earn a cumulative grade point average of at least 2.00.

B. Second Class Honors

1. A student must have passed all courses of a curriculum with a regular semester and must not have failed any course.

2. A student must earn a cumulative grade point average of at least 3.00.

C. First Class Honors

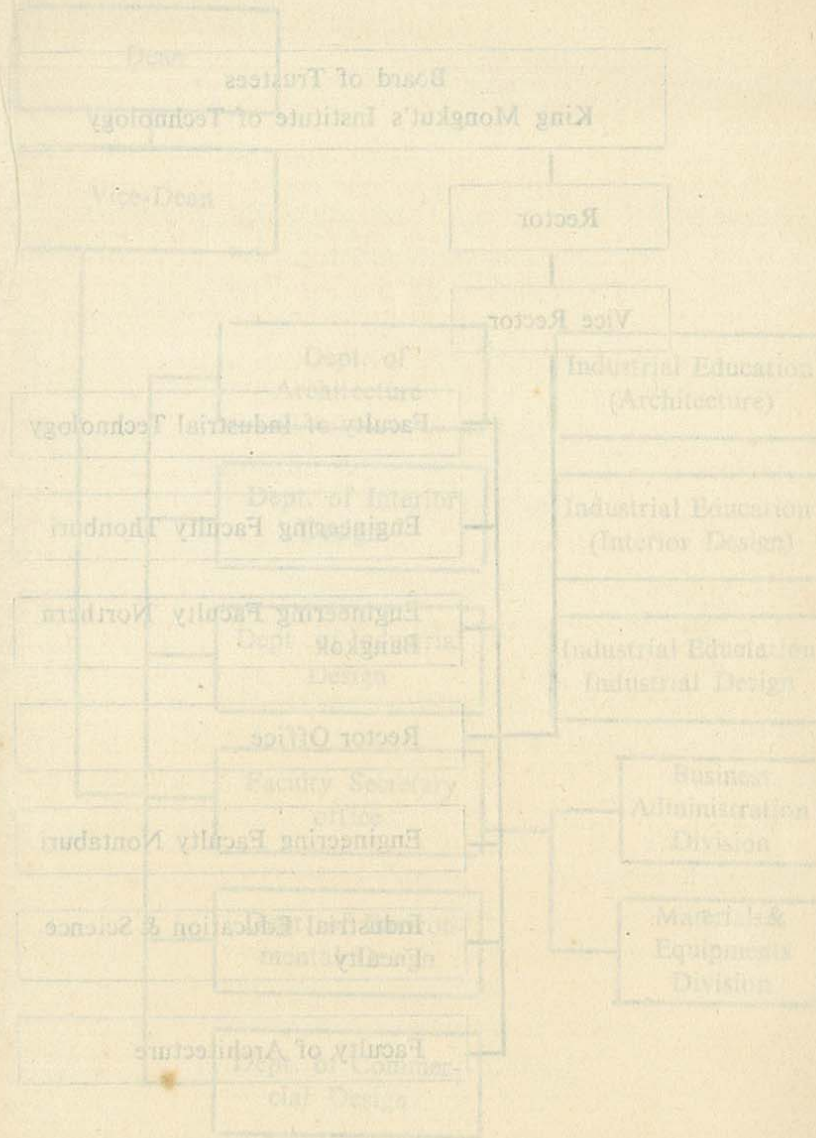
1. A student must have passed all courses of a curriculum with a regular semester and must not have failed any course.

2. A student must earn a cumulative grade point average of at least 3.50.

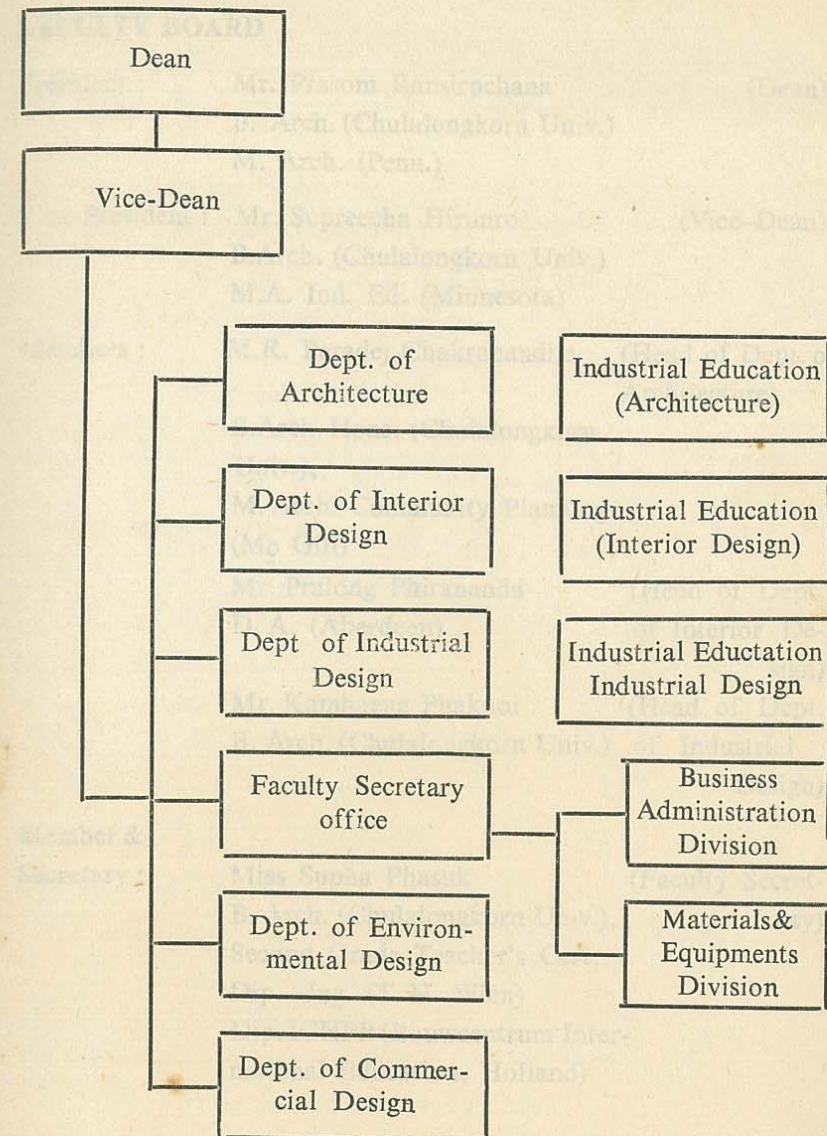
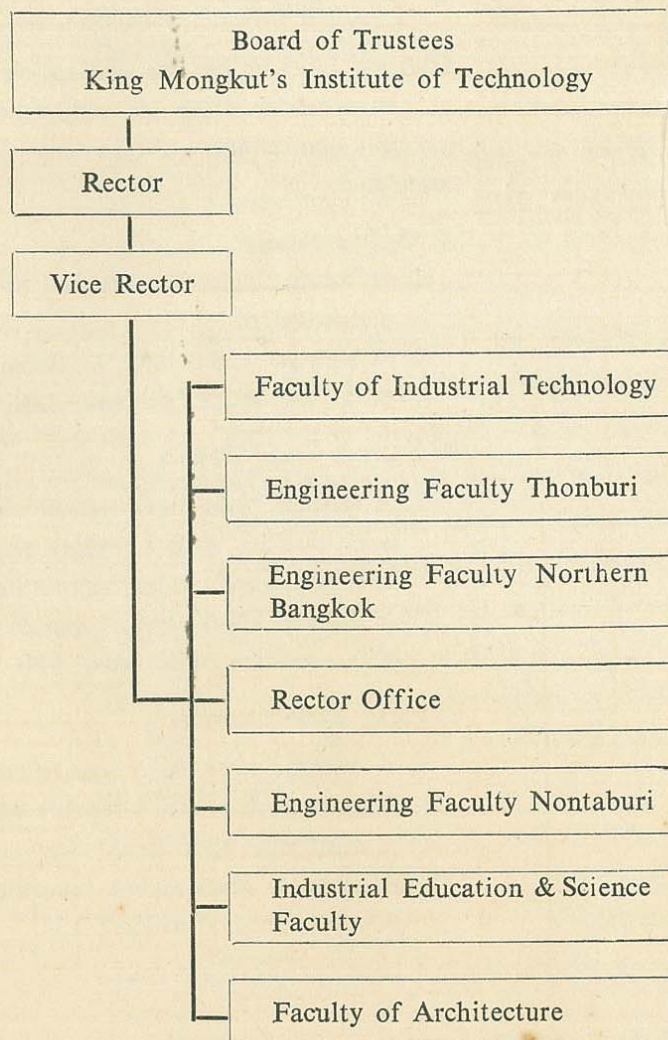
3. A student must earn a cumulative grade point average of at least 4.00.

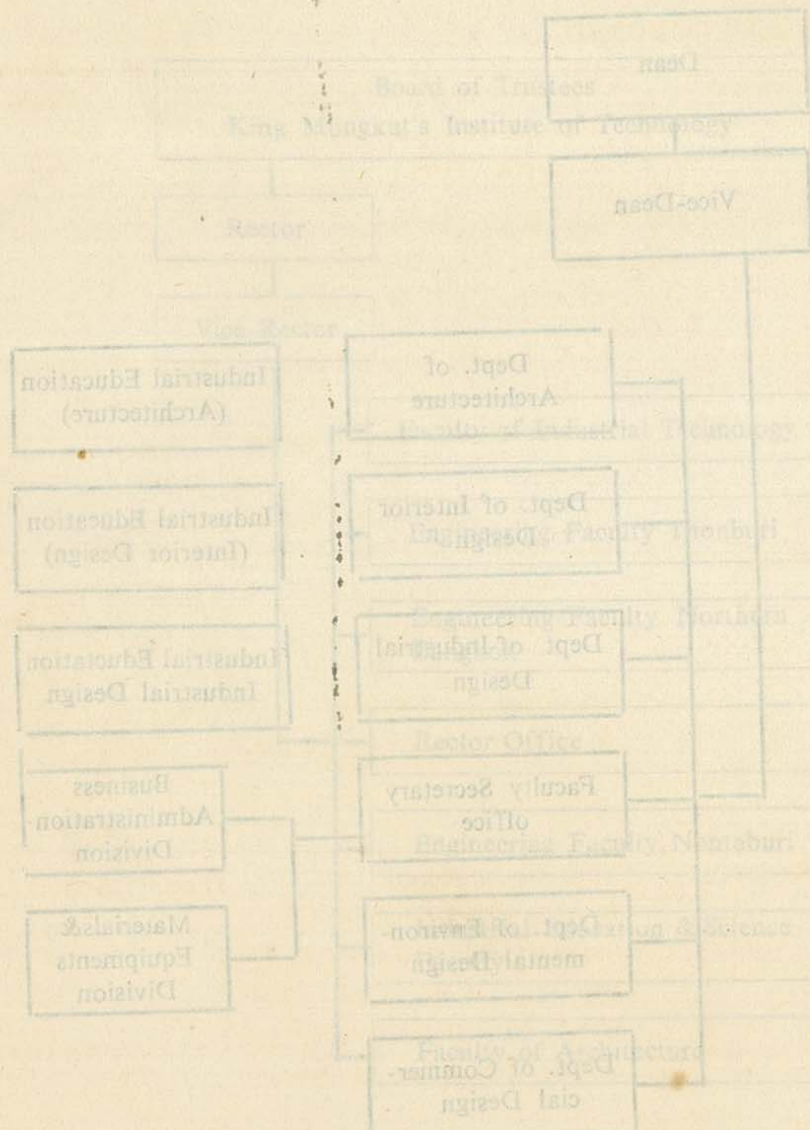
4. A student must earn a cumulative grade point average of at least 4.50.

5. A student must earn a cumulative grade point average of at least 5.00.



FACULTY BOARD AND STAFF





FACULTY OF ARCHITECTURE KING MONGKUT'S INSTITUTE OF TECHNOLOGY

FACULTY BOARD

- President :** Mr. Prasom Ransirochana (Dean)
B. Arch. (Chulalongkorn Univ.)
M. Arch. (Penn.).
- Vice-President :** Mr. Supreecha Hirunro (Vice-Dean)
B.Arch. (Chulalongkorn Univ.)
M.A. Ind. Ed. (Minnesota)
- Members :** M.R. Peradej Chakrabandhu (Head of Dept. of Architecture)
B.Arch. Hons. (Chulalongkorn Univ.),
M. Arch. Community Planning (Mc Gill)
Mr. Pralong Phirananda (Head of Dept. of Interior Design)
D. A. (Aberdeen)
Mr. Kamhaeng Phaknoi (Head of Dept. of Industrial Design)
B. Arch. (Chulalongkorn Univ.)
- Member & Secretary :** Miss Supha Phasuk (Faculty Secretary)
B. Arch. (Chulalongkorn Univ.),
Second Grade Teacher's Cert.
Dip. - Ing. (T. H. Wien)
Dip. ICHPB (Bouwcentrum International Education, Holland)

DEPARTMENT OF ARCHITECTURE

TEACHING STAFF

1. M.R. Peradej Chakrabandhu Head of Department
B. Arch. Hons. (Chulalongkorn Univ.),
M. Arch. Community Planning (Mc Gill)
2. Mr. Chatchai Gadavanij
B. Arch. (Chulalongkorn Univ.),
M. Arch. (Oklahoma State Univ.)
3. Mr. Somluk Asvahem
B. Arch. (Chulalongkorn Univ.),
M. Arch. (Pratt Inst.)
4. Mr. Vivat Temiyabandha
B. Arch. (Chulalongkorn Univ.)
5. Mr. Prachya Chakajongsak
B. Arch. (Chulalongkorn Univ.),
M. Arch. (Kansas State Univ.)
6. Mr. Wichian Suwanarat
B.Arch. (Silpakorn)
M.S.Trop.Arch. (Pratt Inst.)
7. Mrs. Nualchun Thongtaipa
B.Arch. (Silpakorn)
8. Mr. Nick Naganidhi
B. F. A. Arch. Design (Chouinard Art Inst.)
9. Mrs. Kobkul Pruettthipunt
B. Arch. (Silpakorn)
10. Mrs. Manee Bhanichakarn
B. Arch (Chulalongkorn Univ.)
11. Mr. Kasem Boonsuan
B. Arch. (Chulalongkorn Univ.)

12. Mr. Supanat Nilratana
B. Arch. (Chulalongkorn Univ.)
13. Mr. Surat Rungtao
B. Arch. Hons. (Silpakorn)
14. Mr. Teeramon Wairochanakich
B. Arch. Hons. (Chulalongkorn Univ.)
15. Miss Ladda Tejavanija
B. Arch. Hons. (Chulalongkorn Univ.)
16. Miss Pusadee Muangmanee
B. F. A. Archeology (Silpakorn)
17. Mr. Jamon Rakgarndee
B. S. Arch. (Far-Eastern Univ.),
M. S. Trop. Arch. (Pratt Inst.)
18. Mr. Somkiart Lopetcharat
B. S. Arch. (Far-Eastern Univ.),
M. S. Trop. Arch. (Pratt Inst.)

SPECIAL LECTURERS

1. Prof. Dr. Niwat Daranandana
B. Eng. Hons. (Chulalongkorn Univ.)
D. I. C. (London). Ph.D (Colorado)
2. Associate Prof. Rueangsakdi Kantabutr
B. Arch. (Chulalongkorn Univ.),
M.S. in Arch. (I.I.T.)
3. Dr. Suchest Sithichaikasem
B. Eng. (Chulalongkorn Univ.)
M. Eng. (SEATO), Ph. D. (Illinois)
4. Mr. Aswin Bijayayodhin
B. Arch. Hons. (Chulalongkorn Univ.),
M. Arch. Transp. Planning. (Illinois)
5. Mr. Terdkiat Sakdicumduang
B. Arch. (Chulalongkorn Univ.),
M. Arch., M. C.P. (Penn.)
6. Miss Arporn Chanchaoensook
B. Arch. (Chulalongkorn Univ.),
M. R. P. (North Carolina)
7. Mr. Chalitpakorn Virapalin
B. Arch. (Chulalongkorn Univ.),
M. R. P., M. L. A.
8. Mr. Pinyo Suwankiri
B. Arch. (Chulalongkorn Univ.),
M. Arch. (Penn.)
9. Mr. Anuwit Charoensupakul
B. Arch. (Silpakorn), M. Arch.
10. Captain Kamol Sawasdikosol
B. Sc. (Chulachomklao Royal Military Academy)

11. Mr. Taworn Kaeoyana

B. Eng. (Chulalongkorn Univ.)

12. Mrs. Suree Kaotian

B. Eng., M. Eng. (Chulalongkorn Univ.)

DEPARTMENT OF INTERIOR DESIGN

TEACHING STAFF

1. Mr. Pralong Phirananda
D.A. (Aberdeen)
Head of Department
2. Mr. Prasart Gunatilaka
B.F.A. Dec.Art. (Silpakorn)
3. Mr. Pomchai Gunatilaka
B.F.A. Dec.Art (Silpakorn)
4. Mr. Somsak Yampry
B.F.A. Dec.Art (Silpakorn)
5. Mr. Sataya Choomsuvana
B.F.A. Dec.Art (Silpakorn)
6. Mr. Kietisak Chanonnart
B.F.A. Painting (Silpakorn)
7. Mr. Chamras Wongcharoen
Dip. Painting & Sculpture (Silpakorn)

SPECIAL LECTURERS

1. Mrs. Ratana Attakor
Dip. Painting & Sculpture (Silpakorn),
M.A.T. (Indiana)
2. Mr. Pittha Bunnag
B.Sc. (Kasetsart Univ.), M.s. (Oklahoma)
3. Mr. Decha Booncum
B.Arch. (Chulalongkorn Univ.),
M.L.A.
4. Mr. Aswin Bijayayodhin
B.Arch. Hons. (Chulalongkorn Univ.),
M.Arch. Transp. Planning (Illinois)
5. Captain Kamol Sawasdikosol
B.Sc. (Chulachomklao Royal Military Academy)
6. Mr. Sumon Intarakosit
M.Ed. (Chulalongkorn Univ.)

DEPARTMENT OF INDUSTRIAL DESIGN

TEACHING STAFF

1. Mr. Kamhaeng Phaknoi, Head of Department
B. Arch. (Chulalongkorn Univ.)
2. Mrs. Pussdee Sujarittanonta
B. Arch. Ind Design (Chulalongkorn Univ.)
3. Mr. Taweethai Boriboon
B. F. A. Painting Hons. (Silpakorn)
4. Mr. Somsak Preeyavanit
B. F. A. Sculpture (Silpakorn)
5. Mr. Decha Warashoon
B. F. A. Graphic Art Hons. (Silpakorn)
6. Mr. Somkiat Traiphan
B. Arch. Ind. Design (Chulalongkorn Univ.)
7. Miss Somsri Suvarnkanishta
Dip. in Ceramics, (Silpakorn), B. Ed. (Chulalongkorn-Univ.)
8. Mr. Theib Sukitorn
Dip. in Ind. Design. (N. E. Technical Inst.)
9. Mr. Tongchai Ratanasonti
Dip. in Metal Trade, Sec. Grade Teachers' Cert.,
B. Ed. (College of Education)
10. Mr. Sanan Sangplong
Dip. in Ind Design. (College of Design and Construction)
11. Mr. Manop Soodsanguan
Dip. in Ind. Design., (College of Design and Construction),
Sec. Grade Teachers' Cert.

12. Mr. Vichar Jiravuti
Dip. in Arts and Craft. (College of Art and Craft)
13. Mr. Choedchai Kruruttana
Dip. in Arts and Craft. (College of Art and Craft)
14. Mr. Vinai Udomsap
Dip. in Arts and Craft. (College of Art and Craft)
15. Mr. Kovit Kithyruangroj
B. Arch. Ind. Design (Chulalongkorn Univ.)
16. Mr. Khongdej Hoonpadungrat
B. Arch. Ind. Design (Chulalongkorn Univ.)

SPECIAL LECTURERS

1. Mr. Bhotong Keowsuddhi
M. F. A. (Industrial Design), (Univ. of Illinois)
2. Mrs. Saowaree Rachoopimol
Diploma in Home Economics

DEPARTMENT OF ENGINEERING

DEPARTMENT OF ENGINEERING

TEACHING STAFF

1. Mr. Prasom Ransirochana Head of Department
B.Arch. (Chulalongkorn Univ.),
M.Arch. (Penn.)
2. Mr. Dang Riensuwarn
B.Eng. (Chulalongkorn Univ.),
Dip. ICHPB (Bouwcentrun International Education,
Holland)
3. Miss Prapabhen Pradipasen
B. Sc. Eng. (London)
4. Miss Udomratana Rhujirodvarangkur
B. Eng. (King Mongkut's Inst. of Technology)
5. Mr. Surat Wungcharoen
B. Eng. (King Mongkut's Inst. of Technology)
6. Mr. Sompol Kamolsingh
Dip. Survey Engineering (College of Design & Con-
struction)
7. Mr. Siriwat Chaichana
B. Eng. (King Mongkut's Inst. of Technology)
8. Mr. Kasem Amantakul
Dip. Surveying, Secondary Grade Teacher's Certificate
(Bangkok Technical Inst.)

SPECIAL LECTURERS

1. Prof. Somwang Tantalak
B. Eng. (Chulalongkorn),
Cert. in Surveying.
2. Prof. Dr. Niwat Daranandana
B. Eng. Hons. (Chulalongkorn),
D.I.C. (London), Ph.D. (Colorado)
3. Associate Prof. Sukree Kampananond
B. Eng. (Chulalongkorn),
M.S. in Highway Eng. (Texas)
4. Mr. Meechai Chaisrakaeo
B. Eng. (Chulalongkorn), M.Sc.
5. Dr. Manoo Viraburus
B. Eng. (Chulalongkorn),
M.Sc., Ph.D.
6. Mr. Satian Chalacheewa
B.Eng., M.Eng. (Chulalongkorn)
7. Mr. Pongtep Panyarachun
B.Eng. (Chulalongkorn), M.S.
8. Mr. Sanya Saowapap
B.Eng. (Chulalongkorn), M.Eng.
9. Mr. Taworn Kaeoyana
B. Eng. (Chulalongkorn)
10. Mr. Yos Laksanakoses
B. Eng. (Chulalongkorn), M.Eng.

11. Mr. Mana Wongpiwat
B. Eng. (Chulalongkorn), M. Eng.
12. Mr. Samart Yolpak
B. Eng. (Chulalongkorn), M.S. in C.E.
13. Mrs. Pranee Suntornsiri
B. Eng., M. Eng. (Chulalongkorn)
14. Mr. Chatuporn Buokiew
B. Eng. (Chulalongkorn)
15. Mrs. Suree Kaotian
B. Eng., M. Eng. (Chulalongkorn)
16. Mr. Preecha Teeratratanasawasdi
B. Eng. (Chulalongkorn)
17. Mr. Deecha Booncum
B. Arch. (Chulalongkorn), M.L.A.

FACULTY SECRETARY OFFICE

1. Miss Supha phasuk Faculty Secretary
B. Arch. (Chulalongkorn Univ.), Second Grade Teachers' Cert.
Dipl. - Ing. (T.H. Wien),
Dip. ICHPB (Bouwcentrum International Education, Holland)
2. Mr. Charn Arsai Business Administration Division
Elementary Grade Teachers' Cert.
3. Mrs. Pairat Phaknoi Student Personnel Division
B. Ed. Maths. (Chulalongkorn Univ.)
Secondary Grade Teachers' Cert.
M.Ed. Ed. Admin. (Chulalongkorn Univ.)
4. Mr. Chairat Isratana Maintenance, Materials & Equipments Division
Dip. in Bldg. Cons., Sec. Grade Teachers' Cert.
5. Mrs. Buppa Smitatilaka Welfare
Cert. in Nursing Midwifery and Public Health Nursing (Women Hospital)
6. Mr. Surat Rungtao Maintenance
B. Arch. Hons. (Silpakorn)
7. Miss Khuanchai Sanunvanich Library
B.A. (Chulalongkorn Univ.)
8. Mr. Owat Poolsiri Personnel
Dip. in Bldg. Cons., Sec. Grade Teachers' Cert.
(Bkk. Technical Inst.), B.Ed. (College of Education)

9. Mrs. Dawmanee Maneesri
B.Ed. (College of Education)
10. Mr. Narong Chayayon Vehicles, Transportation
B.Ed. (College of Education)
11. Mrs. Permpongse Nimibutr
Dip. in Accountancy (Bkk. Technical Inst.)
12. Mr. Thavorn Archeeva Central Store
Dip. in Ind. Tech. (Bkk. Technical Inst.)
13. Miss Boonyalak Boonmee
Dip. in Secretary, Sec. Grade Teachers' Cert.
(Bkk. Technical Inst.)
14. M.L. Warayos Ladawalaya
Dip. in Arch. (N.E. Technical Inst.)
15. Mr. Prarop Jantraphakdee Documents & Publications
Second Grade Teachers' Cert (Dept. of Teacher Training, Min. of Education)
16. Mrs. Khuanta Archeeva
Cert. in Accountancy (Makasan Commercial School)
17. Miss Jirabandha Marubordee
Cert. in Secretary (Dhonburi Commercial College)
18. Mr. Tawat Saisriyood
Cert. in Accountancy (Dhonburi Commercial College)
19. Mrs. Charoensri Jiamchaisri
M. 6 (Stree Wat Absornsawan School)
20. Miss Lamjiak Kaewsonthi
M.S. 3 (Wat Bowornmongkol School)

21. Miss Maliwan Suthisamdang
Dip. in Secretary (Bangkok Commercial College)
22. Miss Wararat Hiranrak
Dip. in Distribution (Bangkok Commercial College)
23. Miss Pakawan Jiamchaisri
Higher Cert. in Ed. (Bansomdej-Chaopraya Teachers's College)
24. Miss Ruchnee Longbangplee
Cert. in Marketing (General Commercial College)
25. Mr. Paitoon Roopsawang
Cert. in General Business (Silom Commerce School)
26. Mr. Suthep Yongsawai
Cert. in Marketing (Rajdamnern Commercial School)

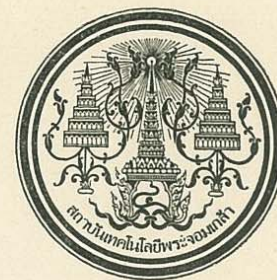
FINANCE AND ACCOUNTANCY

1. Mrs. Anut Subhachalat Finance
Sec. Grade Teachers' Cert.
(Dept. of Teacher Training,
Min. of Ed.)
2. Mrs. Chintana Promayanna Accountancy
Dip. in Secretary,
Sec. Grade Teachers' Cert.
(The Bkk. Technical Inst.)

FACULTY OF ARCHITECTURE KING MONGKUT'S INSTITUTE OF TECHNOLOGY

CURRICULUM

DEPARTMENT OF ARCHITECTURE
DEPARTMENT OF INTERIOR DESIGN
DEPARTMENT OF INDUSTRIAL DESIGN



FACULTY OF ARCHITECTURE KING MONGKUT'S INSTITUTE OF TECHNOLOGY

CURRICULUM

**DEPARTMENT OF ARCHITECTURE
DEPARTMENT OF INTERIOR DESIGN
DEPARTMENT OF INDUSTRIAL DESIGN**



CURRICULUM
DEPARTMENT OF ARCHITECTURE
DEPARTMENT OF INDUSTRIAL DESIGN
DEPARTMENT OF INTERIOR DESIGN
FACULTY OF ARCHITECTURE
KING MONKUT'S INSTITUTE OF
TECHNOLOGY

CURRICULUM
DEPARTMENT OF ARCHITECTURE

COURSE NUMBER IDENTIFICATION

First Digit	means	Year
Second Digit	means	Semester
Last Digit	means	Course Step

First Year

1st Semester

111	English	3	0	3
111	Mathematics	3	0	3
111	Physics	3	0	3
111	Freehand Drawing	0	4	2
110	Music Appreciation	1	0	1
111	Visual Design	0	4	2
111	Elementary Drafting	1	3	2
111	Architectural Graphics	1	3	2
111	Fundamental Design	1	3	2
111	Building Materials	2	0	2
111	Building Technology	1	3	2
		16	20	24

First Year

2nd Semester

122	English	3	0	3
122	Mathematics	3	0	3
122	Physics	3	0	3
121	Structural Mechanics	3	0	3
122	Freehand Drawing	0	4	2
122	Visual Design	0	4	2
122	Descriptive Geometry & Perspective	1	3	2
122	Architectural Graphics	1	3	2
122	Fundamental Design	1	3	2
122	Building Technology	1	3	2
		16	20	24

Second Year

3rd Semester

213	English	3	0	3
213	Mathematics	3	0	3
212	Structural Mechanics	3	0	3
210	General Psychology & Philosophy	1	0	1
211	Interior Design	1	3	2
211	Architectural Design	1	7	4
212	Building Materials	2	0	2
213	Building Technology	1	6	4
211	History of Architecture	2	0	2
		17	16	24

Second Year

4th Semester

224	English	3	0	3
223	Structural Mechanics	3	3	4
221	Structures	2	2	3
220	Probability & Statistics	2	0	2
222	Interior Design	1	3	2
222	Architectural Design	1	7	4
224	Building Technology	1	6	4
222	History of Architecture	2	0	2
		15	21	24

Third Year

5th Semester

315	English	3	0	3
312	Structures	2	2	3
311	Surveying	2	3	2
311	Mechanical Equipments for Building	2	0	3
310	Human Relationship	1	0	1
313	Architectural Design	1	7	4
315	Building Technology	1	6	4
311	Estimation	2	0	2
311	Landscape Architecture	1	3	2
		15	21	24
	Physical Education			1

Third Year

6th Semester

326	English	3	0	3
323	Structures	2	2	3
322	Surveying	2	3	3
322	Electrical Equipments for Building	2	0	2
324	Architectural Design	1	7	4
326	Building Technology	1	6	4
322	Estimation	2	0	2
322	Landscape Architecture	1	3	2
320	Professional Practice	2	0	2
		16	21	25

* The student may select to take the Physical Education course between 1st semester to 5th semester

Fourth Year

7th Semester

417	English	2	0	2
414	Structures	2	2	3
410	Organization & Management	2	0	2
415	Architectural Design	1	12	6
417	Building Technology	1	7	4
410	Urban Sociology	2	0	2
411	Thai Architecture	1	3	2
411	Seminar	0	3	2
411	Architectural Concept	1	0	1
		12	27	24

Fourth Year

8th Semester

428	English	2	0	2
425	structures	2	2	3
426	Architectural Design	1	12	6
428	Building Technology	1	7	4
422	Thai Architecture & Measured work	1	3	2
422	Seminar	0	3	2
422	Architectural Concept	1	0	1
420	Office Practice (30 days)	0	0	1
421	Site Planning	2	2	3
		10	29	24

Fifth Year

9th Semester

519	English	2	0	2
516	Structures	2	3	3
517	Architectural Design	0	12	6
519	Building Technology	1	7	4
510	Architectural Practice	2	0	2
513	Seminar	0	3	2
513	Architectural Concept	1	0	1
522	Urban Design	2	2	3
		10	27	23

Fifth Year

10th Semester

520 Thesis	0	30	15
	0	30	15
1st year — 3rd year 146 credits			
4th year — 5th year 86 credits			
1st year — 5th year 232 credits			

COURSE DESCRIPTION

Department of Architecture

- 111 Elementary Drafting (1-3-2)
Students are introduced to know how to use the drawing instruments and principles of drawing, development of the students drafting ability. Uses of various methods of parallel projection to establish a facility in the presentation of objects.
- 122 Descriptive Geometry & Perspective Drawing (1-3-2)
To develop the students imaginative ability, to adhere the observation and sense of spatial relationship by descriptive geometry and orthographic projection; shades and shadows, and to interpenetrate principles of perspective drawing, and presentation of architectural drawing, in various type of buildings
- 111 Architectural Graphics (1-3-2)
The purposes of this course enables the students to read and interpret quickly and correctly an architectural graphics and to enable them to understand the basic knowledge of architectural graphics and the application of the architectural design
- 122 Architectural Graphics (1-3-2)
Study the dimensions of the human, figure, furniture, accessories, plumbing fixtures, mechanical equipments and the space required for residential, commercial, public buildings and know how to apply them to the students own design.
- 111 Fundamental Design (1-3-2)
Introduction to architecture, design planning and aesthetic contexts. Investigation of two-dimension.

- 122 Fundamental Design (1-3-2)
Investigation on three dimension, report on architectural approach.
- 211 Architectural Design (1-7-4)
General principles in design and architectural report.
- 222 Architectural Design (1-7-4)
Orientation and environmental control with report.
- 313 Architectural Design (1-7-4)
Organization of planning design (Planning, Circulation, form, Space,) and report.
- 324 Architectural Design (1-7-4)
Architectural problems of varying types and characteristics with report.
- 415 Architectural Design (1-12-6)
Advance design, contemporary architecture and report.
- 426 Architectural Design (1-12-6)
The trend of modern architecture and report.
- 517 Architectural Design (0-12-6)
Complex buildings or groups of buildings usually including a redevelopment problem and a commercial or a public building with report.
- 528 Architectural Design (0-30-15)
Thesis.
- 111 Materials and methods (2-0-2)
Analysis of the building materials; wood, stone, brick, steel, concrete, and reinforced concrete; their origin, physical and structural properties and their proper use and combination in building construction on the basis of their properties.

- 212 Materials and methods (2-0-2)
Analysis of the building materials; partition, wall covering, floor finishing, ceiling, roofing, insulating, plumbing fixtures, door & window, hardware & paint. Study their origin, physical and structural properties and their proper use and combination in building construction on the basis of their properties.
- 111 Building Technology (1-3-2)
History development of construction. Elemental wood, brick, concrete block buildings; their methods of construction and their architectural expression with their working drawing methods.
- 122 Building Technology (1-3-2)
Basic of structural system in skeleton type. Transmission of this knowledge in the form of Architectural and construction drawing.
- 213 Building Technology (1-6-4)
Wood construction with its properties. Preliminary design considerations, design development on post & beam. Construction of roof trusses, arches and special frames, with their working drawing methods.
- 224 Building Technology (1-6-4)
Short span of reinforced concrete design emphasis in loads on structures, structural materials structural requirements. Basis states of stress on beams, frames with their working drawing methods.

- 315 Building Technology (1-6-4)
Development of structural systems in bearing wall and skeleton type. Solution of foundation connecting to condition of sub-soil materials and pilings with their working drawing methods.
- 326 Building Technology (1-6-4)
Width span design for reinforced concrete floor and roof construction, flexible and movable partition with their working drawing methods.
- 417 Building Technology (1-7-4)
An analytic study for arches, vaults, domes, frames, folded plates, membranes, plates and thin shells with their working methods.
- 428 Building Technology (1-7-4)
An analytic study for tension and compression structures consist of cables trusses, funicular arches, cable roofs and space frames with their working drawing methods.
- 519 Building Technology (1-7-4)
An analytic study for mass produced building system to examine the implications, limitation of this type of architecture including design, drawing, factory processes, fabrication erection and economic analysis.

211 History of Architecture (2-0-2)

An evolutionary development in architecture of each period in the past to modern age. An analytic study the structure aspects of the buildings, the relationship between space in the architecture, proportion and various influences which had effected to different characteristics in the architectures. The whole course aims at students ability to create a simple unified design, all these aspects being taken into consideration as divided into 3 parts, Pre-historic Architecture, Western Architecture, Egyptian Architecture, West Asiatic Architecture, Greek Architecture, Roman Architecture, Early Christian Architecture, Byzantine Architecture, Romanesque Architecture, Gothic Architecture Renaissance Architecture, Modern Architecture.

222 History of Architecture (2-0-2)

Eastern Architecture, Indian Architecture, Thai Architecture, Chinese Architecture, Japanese Architecture, Burmese Architecture, Cambodian Architecture, Japan Architecture.

311 Estimation (2-0-2)

Principle of estimates, the manner of estimator and quantities surveyer. The condition of construction site, transportation cost, materials cost, labour cost, field office's expenditure, interest, over head, taxes, profit, the system of working, control step of works schedule, progress of works, the system of rough estimate; cost per panel, cost per square meter, cost per cubic meter.

322 Estimation (2-0-2)

The system of detail estimation, location & condition of construction site, field office a godown's cost landing and transporting materials cost, the step of works and costs of piling, excavation, form work, steel work, concrete work, masonry work, wood work, metal work, roof work, plumbing, and plumbing fixtures installation, electrical wiring and electrical fixtures installation, painting, finishing, testing, mechanical for building and special works, with their labour cost and machinery cost.

311 Landscape Architecture (1-3-2)

Introduction; meaning of landscape architecture. A brief history of landscape architecture, plant & landscape materials and their uses.

322 Landscape Architecture. (1-3-2)

Site planning, design and construction, public open space planning and design.

320 Professional Practice (2-0-2)

A course of lectures and practical problems dealing with specifications, specification writing, supervision of construction, arbitration, issuing of certificates, competitions, standard forms of contracts, comparative study of documents, payment, clients, servitudes, public health, building regulation.

510 Architecture Practice (2-0-2)

Professional practice consists of an essential characteristics and more important phases of architect's work, obligation of the profession to society, to the owners and to itself, responsibility business conduct, fees. The legal and ethical position of architect in practice, the architect's working organization, emerging technique of office practice.

- 410 Urban Sociology (2-0-2)
The development of urban societies. The reciprocal effects of urban institutions and their influence upon surrounding regions. Also study of the processes of urban life such as population distribution, cultural shifts, law enforcement. The city will be used as a social laboratory through field trips and follow-up visits, class discussion will cover theoretical implications.
- 411 Thai Architecture (1-3-2)
Study the characteristic of Thai ornaments, Thai decorative art and Thai fine carving motifs which were used in Thai and architecture. Also study the component parts of structure and the construction system of the small Thai buildings and Thai houses with their practical drawings.
- 422 Thai Architecture & Measured Work (1-3-2)
Study the variety of the component parts of structures and the construction system of Thai architecture with emphasis on large buildings such as temple, viharn, pagoda and prasad, ect. Between middle of March to middle of April, all fourth year students are assigned to study and analyse the work of well known, old master pieces of Thai architecture in the differential periods which are required the restoration. Measured work are needed for preparing the reporting and plate drawing to make a model in order to maintain fine proportion and to obtain the best result which is the aiming point of studying Thai architecture that will be immensely useful in keeping such superb work for national preservation.
- 411 Seminar. (0-3-2)
Identification of major problems of architecture development of approaches to solutions. Problems proposed by instructor or quests of the students. Discussion of student reports.

- 422 Seminar (0-3-2)
Relation of architectural research to the discipline of architecture. Team investigation of topics related to theory and practice.
- 513 Seminar (0-3-2)
Each student will choose a facet of the thesis as the subject of an individual design research project. Review of the development and exchange of contents of thesis, also the seminar will deal with theoretical problems of combining these facets to form an integrated whole.
- 411 Architectural Concepts. (1-0-1)
Consideration in depth of selected aspect of modern architecture. The background and evolution of modern architecture in nineteenth and twentieth century.
- 422 Architectural Concepts (1-0-1)
Study the principles of philosophy and concepts of the world great architects and structural engineers.
- 513 Architectural Concepts (1-0-1)
Guidance to the students to create their own individual philosophy of design and logics
- 421 I. Site Planning (2-3-3)
Providing experience in planning residential community and small-scale commercial areas with a comprehensive approach concerning social, economic and physical aspects.
- 512 II. Urban Design (2-2-3)
Design Product :
Providing experience in designing at the urban scale within the context of existing development and with aspects of urban renewal; and

Design Analysis :

Providing experience in analysis of the urban form, developing methodology for making design decisions and developing design policy as a framework for influencing the form of future urban growth, and experience in effecting such policy.

420 Office Practice (0-0-1)

Students are required to practice in their professional fields either at a government office or a private office for a period or 30 days, from the first week of May to June.

Architecture Division

111 Analytic Geometry & Calculus (3-0-3)

Graphs (properties of graphs) - Cartesian space, Limit and Continuity Differentiation & Indefinite integration of the simple algebraic and trigonometric functions, Applications (Maxima & Minima), Higher Derivative, Differential, Technique of integration, Definite integrals.

122 College Algebra, Analytic Geometry & Calculus (3-0-3)

Inequalities, Absolute Value, Applications of definite integral, Approximate integration, Improper integrals, Evaluation of real roots of equations, Concepts of Analytic Geometry:- Straight lines, Circles and Conic sections,

213 Calculus (3-0-3)

Polar coordinates and Transformation, Applications of definite integral to mechanics, curvature and evolute, Hyperbolic functions, Rolle's Theorem, Mean Value Theorem and Indeterminate form, Introduction to differential equations, Vector algebra, Infinite series,

111 English (3-0-3)

Emphasis in this course is laid upon review of English grammatical structure. Reading of selected passages with exercise on comprehension and composition. Laboratory exercise for practice in listening and repeating after native speaker, pronunciation & conversation is included in the course.

122 English (3-0-3)

This course which is more advanced than 101 will bridge the gap between basic grammar courses and the further courses in Technical English preparing the students for 213 & 224

- 313 English (3-0-3)
Term of elementary mechanics and physics, structures, and vocabulary concerning the following; expression of result, condition expression of purpose, patterns of time statements, sequence.
- 224 English (3-0-3)
Description of technical statements related to the texts. Vast vocabulary of technical words scientific and non scientific belonging to the phraseology of science; practice in technical writing, emphasis is put on the study of instructions.
- 315 English (3-0-3)
Brief introduction to technical reports and presentation.
- 326 English (3-0-3)
Provides wide acquaintance with composition, comprehension, words of often confused, idioms and expressions, text books, with emphasis on report writing as applied to academic field and inspection report.
- 417 English (2-0-2)
Reading of academic texts with exercises of translation and stress on the aiming point of comprehension.
- 428 English (2-0-2)
Essentials of English oral practice, emphasis on the study of vocabulary, intonation and conversation (listening comprehension).
- 519 English (2-0-2)
Continuation of training in written work, aiming at precise analysis of academic and scientific texts (technological texts, inspection report.)

- 111 Physics (3-0-3)
Measurement, vectors, motion, Newton's law of motion, particle dynamics, work and energy, conservation of linear momentum, rotation, harmonic motion, fluid statics.
- 122 Physics (3-0-3)
Temperature and its effects, transfer of heat, wave in elastic media, sound waves, nature and propagation of light, reflection and refraction, interferences, diffraction polarization.
- 110 Music Appreciation (1-0-1)
Recitation and lectures with recorded examples of music, harmony, rhythm, vocal and instrumental music, form and program and absolute music.
- 115 Visual Design (0-4-2)
The formal elements of design are emphasized in making experimental abstract composition on two-dimensional surfaces, with an imaginative range of materials and media.
- 123 Visual Design (0-4-2)
Students are presented with three dimensional problems of joining in space the formal elements of artistic composition in a unified manner. A variety of materials and methods are used.
- 124 Structural Mechanics (3-0-3)
Force systems resulting of forces algebraically and graphically, equilibrium of three or more forces, algebraic and graphic coplanar concurrent forces, parallel forces in a plane; non-concurrent non-parallel coplanar forces; friction; resolution of forces into three rectangular components; principle of moments, first moment, centroid, moment of inertia of areas, center of gravity, distributed forces, force system in space.

Fine Arts

- 111 Freehand Drawing (0-4-2)
Drawing of plants and objects and drawing from life in the various mediums for the purpose of training the student's eyes and hand.
- 122 Freehand Drawing (0-4-2)
Drawing from nature, out of doors and in the studio. Life drawing in the various techniques and water colour.
- 110 Music Appreciation (1-0-1)
Recitation and lectures with recorded examples of melody, harmony, rhythm, vocal and instrumental timbre, form and program and absolute music.
- 111 Visual Design (0-4-2)
The formal elements of design, are emphasized in making experimental, abstract composition on two-dimensional surfaces, with an imaginative range of materials and media.
- 122 Visual Design (0-4-2)
Students are presented with three dimensional problems of joining in space the formal elements of artistic compositions in a unified manner. A variety of materials and methods are used.
- 121 Structural Mechanics. (3-0-3)
Force systems, resultant of forces, algebraically and graphically, equilibrium of three or more forces, algebraic and graphic, coplanar concurrent forces, parallel forces in a plane; non-concurrent, non-parallel coplanar forces; friction; resolution of forces into three rectangular components, principle of moments, first moment, centroid, moment of inertia of areas, center of gravity, distributed forces, force system in space.

- 212 Structural Mechanics (3-0-3)
Internal forces, stress and strain, elasticity, statically indeterminate problem in tension and compression, stress and strain in the thin ring, variation of stress with aspect of cross section, strain energy in tension and compression, ultimate load for a riveted and welded joints, shearing force and bending moment, shear and bending moment diagrams, bending stress in beams, shear stress in beams, torsion of cylindrical bars, deflection beams.
- 223 Structural Mechanics (3-3-4)
Theory of columns, Euler's column formula combined axial tensile and bending loads, elastic buckling of columns, relations between stress at a point, principal stress, Mohr's circle, composite beams, unsymmetrical bending, continuous beams, three moment theorem, repeated loads, fatigue of metals, dynamic loads included testing of building materials, such as cast iron, steel, timber, concrete brick, concrete block etc.
- 221 Structures (2-2-3)
An introduction to general principles of structure. Elementary shapes and their structural qualities. Designed structural elements and functional units of structure. Spatial concept of a whole structure.
- 312 Structures (Analysis) (2-2-3)
Graphical and analytical calculation of moments and forces in beams, trusses and arches, virtual work deflection theory and moment distribution.

- 323 Structure (Steel and Timber Design) (2-2-3)
Steel in available forms, possibilities of shaping & connecting, design of compression, tension and flexural members, riveted, bolted and welded connections design of plate girders and composite beams, design of timber beams, columns and arches, timber connections.
- 414 Structure (Reinforced Concrete Design) (2-2-3)
Physical properties, permissible stress. Design of tension members. Design of spanning members (bending and shear)
- 425 Structure (R.C. Design) (2-2-3)
Design of compression members. Design of gravity retaining walls. Foundation design in various types. Stresses between soil and structure.
- 516 Structure (R.C. Design) (2-2-3)
Application of structural theories to the design of the whole building. The course aims at student's ability to recognize the main structural concept of architectural works. By looking at the plan they will be able to relate to its structure aspect as well as do some rough calculations on it.
- 311 Survey (2-3-3)
Fundamental principles of plane surveying includes chain and compute surveying, field procedure and note keeping. Theories of measurement and error, preparation of fair drawing, adjustment and computation of fair drawing, adjustment and computation of rectangular coordinates computation of area and volume. The principles and practice of spirit leveling, sectioning and contouring.

- 322 Survey (2-3-3)
Principle of theodolite, transit tape traversing triangulation, tacheometry, trigonometric leveling plane tabling, adjustment and computation of third order works.
- 311 Mechanical Equipment for Building. (2-0-2)
The principle of water supply and drainage systems, how to design the plumbing systems for the building, the habit of heat, the basic systems used to control the heat and ventilating. Further study of the mechanical system used for cooling, ventilating, and air conditioning the interior of buildings with estimation of cooling load: and modern planning. Introduction to elevator and escalator.
- 322 Mechanical Equipment for Building (2-0-2)
Examination of interior and exterior lighting design including vision, colour, sources, wiring, circuit, control and safety. Lighting protection system for high building. Introduction to the basic principles of sound with its physical property and the property of acoustical materials which used in contemporary buildings.
- 220 Probability and Statistics (2-0-2)
Survey of statistical techniques useful to engineers and architects. Includes basic concepts of probability, frequency distributions, function of random variables, distributions, sampling, data description, testing hypotheses, estimation correlation, significance tests, control charts, elementary least square curve fitting.

211 Interior Decoration (1-3-2)

Fundamental of interior design & the arrangement of furniture in functional rooms for domestic building. Influence of colour, light, shade & shadow, the relationship between interior and exterior colour scheme, how to use the various materials to decorate ceiling, wall and floor for house.

222 Interior Decoration (1-3-2)

Interior design for various rooms in the domestic building including the drawing of furniture by using various materials of differing properties and basic techniques.

210 General Psychology and Philosophy

Heredity and Environment, personality development, motivation, adjustment, learning logical thinking, reasoning, ethics and aesthetics.

410 Organization & Management (2-0-2)

Concept of organization and management. Specialization of work. Principle of organization. Administrative staff services. The role of organization and management service and-analysis Administrative survey. Work simplification. Administration of an office. Supervision.

COURSE NUMBER IDENTIFICATION

First Digit

Second Digit

Last

CURRICULUM

DEPARTMENT OF INTERIOR DESIGN

- 211 Interior Decoration (1-3-2)
Fundamental of interior design & the arrangement of furniture in functional rooms for domestic building. Influence of colour, light, shade & shadow, the relationship between interior and exterior colour scheme, how to use the various materials to decorate ceiling, wall and floor for house.
- 222 Interior Decoration (1-3-2)
Interior design for various rooms in the domestic building including the drawing of furniture by using various materials of differing properties and basic techniques.
- 210 General Psychology and Philosophy
Hereditry and Environment, personality development, motivation, adjustment, learning logical thinking, reasoning, ethics and aesthetics.
- 410 Organization & Management (2-0-2)
Concept of organization and management. Specialization of work. Principle of organization. Administrative staff services. The role of organization and management service and analysis. Administrative surveys. Work simplification. Administration of an office. Supervision.

DEPARTMENT OF INTERIOR DESIGN
CURRICULUM

1st Semester

1st Year

111	English	3	0	3
111	Drawing	0	0	0
111	Visual Design	0	0	0
111	Fine Art	0	0	0
111	Anatomy	1	0	1
111	General Graphics	1	0	1
111	Art History	0	0	0
110	Wood Working	0	0	0
111	Interior Design	0	0	0
111	First Digit	means	Year	
111	Second Digit	means	Semester	
111	Last Digit	means	Course Step	

COURSE NUMBER IDENTIFICATION

First Year

1st Semester

111	English	3	0	3
111	Drawing	0	4	2
111	Visual Design	0	4	2
111	Fine Art	0	4	2
111	Anatomy	1	3	2
111	General Graphics	1	3	2
111	Arch. Graphics	1	3	2
110	Wood Working	1	3	2
111	Interior Design	2	4	4
		9	28	22
	Physical Education			1

First Year

2nd Semester

122	English	3	0	3
122	Drawing	0	4	2
122	Visual Design	0	4	2
122	Fine Art	0	4	2
122	Anatomy	1	3	2
122	General Graphics	1	3	2
122	Arch. Graphics	1	3	2
120	Metal Working	1	3	2
122	Interior Design	2	4	4
		9	28	22

Second Year

3rd Semester

213	English
211	Botany
210	Music Appreciation
213	Fine Art
211	History of Art
213	Interior Design
211	Exhibition
211	Materials and Processes

3	0	3
2	0	2
2	4	0
2	3	1
2	3	1
2	3	1
2	3	1
2	3	1
2	3	1
12	24	21

Second Year

4th Semester

224	English
222	Botany
224	Fine Art
222	History of Art
221	Architecture
224	Interior Design
222	Exhibition
222	Materials and Processes

3	0	3
2	0	2
2	4	0
2	3	1
2	3	1
2	3	1
2	3	1
2	3	1
2	3	1
12	27	22

Third Year

5th Semester

315	English	3	0	3
311	Building Equipments	2	0	2
31A	Elective in Fine Art	0	4	2
312	Architecture	1	3	2
311	Gardening Design	1	3	2
315	Interior Design	2	8	6
313	Exhibition	1	3	2
313	Materials and Processes	1	3	2
311	History of Furniture	1	0	1
		12	24	22
31A	Elective in Fine Art			
32A	Graphics Arts			
	Painting			
	Sculpture			

Third Year

6th Semester

326	English	3	0	3
322	Building Equipments	2	0	2
320	Philosophy	1	0	1
32A	Elective in Fine Art	0	4	2
323	Architecture	1	3	2
322	Gardening Design	1	3	2
326	Interior Design	2	12	6
324	Exhibition	1	3	2
322	History of Furniture	1	0	1
		12	25	21

Fourth Year

7th Semester

417 English	2	0	2
410 Organization and Management	2	0	2
410 Aesthetics	2	0	2
410 Photography	1	3	2
411 Research of Old Thai Art	0	4	2
41A Elective in Decorative Art	1	6	3
417 Interior Design	2	12	6
411 Estimation	2	0	2
	12	25	21

41A Elective in Decorative Art

41B Ceramics			
Advanced Painting			
Advanced Sculpture			
Graphics Art			
Textiles			
Metal Crafts			

Fourth Year

8th Semester

428 English	2	0	2
422 Photography	1	3	2
420 Art Criticism	2	0	2
422 Research of Old Thai Art	0	4	2
42A Elective in Decorative Art	1	6	3
428 Interior Design	2	12	6
422 Estimation	2	0	2
	10	25	19
Office Practice			1

Fifth Year

9th Semester

417	English	2	0	2
418	Organization and Management	2	0	2
419	Aesthetics	2	0	2
410	Photography	1	3	2
411	Research of Old Thai Art	0	4	2
41A	Elective in Decorative Art	1	6	3
417	Interior Design	2	12	6
417	Interior Design	2	0	2
428	English	2	0	2
422	Photography	1	3	2
420	Art Criticism	2	0	2
422	Research of Old Thai Art	2	0	2
42A	Elective in Decorative Art	2	0	2
428	Interior Design	0	4	2
422	Examination	1	6	3
519	Interior Design	2	18	8
		7	28	17

Fifth Year

10th Semester

520	Thesis in Interior Design	15
1 st Year — 3 rd Year	131	Credits
4 th Year — 5 th Year	73	Credits
1 st Year — 5 th Year	204	Credits

Course Descriptions

Department of Interior Design

- 111 Interior Design (2-4-4)
An analytic study of line, form, space, and proportion used in furniture design, size and kinds of furniture.
- 122 Interior Design (2-4-4)
Design and construction of furniture using various materials of differing properties and basic techniques. Study a type of house, functional rooms for domestic building, an arrangement of furniture.
- 213 Interior Design (2-12-6)
Influence of colour for interior and exterior scheme, light, shade and shadow, interior design for a domestic building.
- 224 Interior Design (2-12-6)
Interior decoration ; floor, wall, and ceiling.
Interior design for a domestic building.
- 315 Interior Design (2-8-6)
Interior design for a commercial building and show rooms.
- 326 Interior Design (2-12-6)
Design and practice in workshop.
- 417 Interior Design (2-12-6)
Interior design for office building.
- 428 Interior Design (2-12-6)
Interior design for public building.
- 519 Interior Design (2-18-8)
Design and practice in workshop

- 520 Thesis in Interior Design (0-0-15)
- 211 Exhibition (1-3-2)
A study of space, form, influence of colour and psychology.
- 222 Exhibition (1-3-2)
Space analysis, circulation, and lighting.
- 313 Exhibition (1-3-2)
Study of display partition structure and technique of construction, display window and advertising design.
- 324 Exhibition (1-3-2)
Design and practice in indoor exhibition and outdoor exhibition.
- 211 Materials and Processes (1-3-2)
A study of the nature of woods, classification and their aesthetic and function and technical problems of finishing.
- 222 Materials and Processes (1-3-2)
A study of the metal used by the designer; the aesthetic and technical problems.
- 313 Materials and Processes (1-3-2)
A study of the material used by the interior designer; the aesthetic and technical problems.
- 311 History of Furniture (1-0-1)
A study of the development of furniture from pre-historic age to the present.
- 322 History of Furniture (1-0-1)
Influence of industrial revolution, new concept of furniture. design, and development of Thai furniture.

- 411 Estimation (1-0-1)
Theory and practice in rough estimation and detail estimation.
- 422 Estimation. (1-0-1)
Theory and practice in building estimation.
- 111 Freehand Drawing (0-4-2)
Drawing of Plants and objects and drawing from life in the various medium for the purpose of training the student's eye and hand
- 122 Freehand Drawing (0-4-2)
Drawing from nature, out of doors and in the studio.
Life drawing in the various techniques and water colour
- 210 Music Appreciation (1-0-1)
Recitation and lectures with recorded examples of melody, harmony rhythm, vocal and instrumental timbre, form, and program and absolute music.
- 111 Visual Design (0-4-2)
The formal elements of design are emphasized in making experimental, abstract composition on two-dimensional surfaces, with an imaginative range of materials and media.
- 122 Visual Design (0-4-2)
Students are presented with three dimensional problems of joining in space, the formal elements of artistic compositions in a unified manner. A variety of materials and methods are used.
- 111 Fine Arts (0-4-2)
Beginning course in painting, modeling and basic sculpture form, and basic graphic arts.

- 122 Fine Arts (0-4-2)
Composition and colour in painting, sculpture. and graphic arts
- 213 Fine Arts. (0-4-2)
A study of form, texture, colour, space, and technique in painting, sculpture, and graphic arts.
- 224 Fine Arts. (0-4-2)
Any medium or subject, composition, interpretation, expression in painting, sculpture, and graphic arts.
- 211 History of Arts. (2-0-2)
Painting, sculpture, and architecture from prehistoric time to the end of the middle ages.
- 222 History of Arts. (2-0-2)
Painting, sculpture, and architecture from the Renaissance to the present.
- 111 Anatomy.
The fundamental concepts of human anatomy required to acquaint the students with emphasis on drawing in order to have knowledge of internal structure, that is, of the bones which compose the frame work and define its proportion and of the muscles and tendons which directs its action.
- 122 Anatomy
Drawing from anatomical figures and living models are designed to acquaint the students with ability to construct figure, that is in addition to relate with artistic purpose when they advance in their career as designer.

- 410 Aesthetics (2-0-2)
A historical study of the principle theory of art and beauty from ancient through contemporary time. The relation of artistic activity to science, religion and everyday living, concerning artist and people.
- 411 Basic Photography (1-3-2)
Introduction to photography, the use of the dark room and presentation of photograph.
- 422 Creative Photography (1-3-2)
Photography as a contemporary art form; investigating and relating technical and artistic fundamentals.
- 420 Art Criticism (2-0-2)
A critical study of the chief interpretation of the meaning and function of art; material and process; life and work of the artists, to be used as a criteria of judgement in advance.
- 411 Research of Old Thai Art. (0-4-2)
A research of Thai Painting, sculpture, and architecture.
- 422 Research of Old Thai Art. (0-4-2)
A research of Thai lacquerware, ceramics art, and folk art.
- 513 Research of Old Thai Art. (0-4-2)
A research of Thai mural painting, and wood carving,
- 311 Graphic Arts (1-6-3)
Basic silk screen for artistic fundamentals.
- 322 Graphic Arts. (1-6-3)
Silkscreen as a contemporary art form.

- 311 Painting (1-6-3)
Oil painting of art, and mix media.
- 322 Painting (1-6-3)
Painting from imagination with emphasis on composition and development of individual technique.
- 311 Sculpture (1-6-3)
Modeling or carving, plaster, wood, and metals.
- 322 Sculpture (1-6-3)
Composition from carving plaster, wall sculpture, and fountain.
- 311 Gardenning Design (1-3-2)
An introduction to gardening and landscape design, a brief history on landscape gardening and landscape architecture, a study of gardening technique and materials.
- 322 Gardenning Design (1-3-2)
A study of principles of gardening design; home landscaping, small public open space. Studio projects in the use of plant materials in gardenning design and landscape design, with particular emphasis on visual and ecological considerations.
- 221 Architecture for Interior Designer (1-3-2)
Study of the fundamental concepts of architectural design.
- 312 Architecture for Interior Designer (1-3-2)
Study of building materials and methods of construction, emphasizing the physical properties of materials and methods of construction in relation to their effects on aesthetic expression.

- 323 Architecture for Interior Designer (1-3-2)
Problems concerning the design of space for human use; the relationship of a characteristic of architecture to interior design.
- 411 Ceramics (1-6-3)
Introduction to ceramic design, a brief history on ceramic design. A study of raw material and chemical forming by hand, forming on the wheel.
- 422 Ceramics (1-6-3)
A study of chemical and physical properties of clays, preparation of clays and bodies, firing and glaze.
- 513 Ceramics (1-6-3)
A study of glazing formula, technique of firing. Creative ceramics design as a contemporary art; investigating and relating technical and artistic fundamentals.
- 411 Advanced Painting (1-6-3)
Creative painting, and Thai painting.
- 422 Advanced Painting (1-6-3)
Contemporary painting.
- 513 Advanced Painting (1-6-3)
Advanced technical and aesthetic relationships in painting.
- 411 Advanced Sculpture (1-6-3)
Composition from imagination and development of individual technique.
- 422 Advanced Sculpture (1-6-3)
Creative sculpture as a contemporary art.

- 513 Advanced Sculpture (1-6-3)
Advanced techniques and aesthetic relationships in sculpture and their application to individual needs.
- 411 Graphic Arts. (1-6-3)
Advanced technique and aesthetic relationships in silkscreen.
- 422 Graphic Arts. (1-6-3)
Advanced technique in relief processes.
- 513 Graphic Arts.
Advanced technique in intaglio processes.
- 411 Textile (1-6-3)
A study of dyes and dying technique, basic of weaving technique and structural design.
- 422 Textile (1-6-3)
Design and practice in woven textiles.
- 514 Textile (1-6-3)
Creative design as a contemporary art for decoration.
- 411 Metal Craft (1-6-3)
Introduction to metal design, for jewelry and a contemporary art, theory and practice in pattern making, selected projects to develop basic skill in metal working techniques such as sawing, soldering, forming, etc.
- 422 Metal Craft (1-6-3)
A study of enameling techniques on metal.
- 513 Metal Craft (1-6-3)
Advanced problems based upon individual requirements.

510 Economics (2-0-2)

A study of fundamental economic principles as an aid in understanding modern economic society.

211 Botany (2-2-3)

An introduction to the life habits, interrelationships, and classification of native and ornamental plants.

222 Botany (2-2-3)

A study of a general knowledge of soils, soil resources, soil conservation and productivity.

111 English (3-0-3)

Emphasis in this course is laid upon review of English grammatical structure. Reading of selected passages with exercises on comprehension and composition. Laboratory exercise for practice in listening and repetitive after native speaker, pronunciation & conversation is included in the course.

122 English (3-0-3)

This course which is more advanced than 111 English bridge the gap between basic grammar courses and the further courses in Technical English preparing the students for 213 English & 214 English.

213 English (3-0-3)

Term of elementary mechanics and physics, structures and vocabulary concerning the following; expression of result, condition expression of purpose, patterns of time statements, sequence,

214 English (3-0-3)

Description of technical statements related to the texts. Vast vocabulary of technical words scientific and non-scientific belonging to the phraseology of science; practice in technical writing, emphasis is put on the study of instructions

315 English (3-0-3)

Brief introduction to technical reports and presentation.

326 English (3-0-3)

Provides wide acquaintance with composition, comprehension, words of often confused, idioms and expressions, text books, with emphasis on report writing as applied to academic field and inspection report.

417 English (2-0-2)

Reading of academic texts with exercises of translation and stress on the aiming point of comprehension.

428 English (2-0-2)

Essentials of English oral practice, emphasis on the study of vocabulary, intonation and conversation (listening comprehension)

519 English (2-0-2)

Continuation of training in written work, aiming at precise analysis of accademic and scientific texts (technological texts, inspection report.)

410 Organization & Management (2-0-2)

Concept of organization and management. Specialization of work. Principle of organization. Administrative staff services. The role of organization and management service and-analysis. Administrative survey. Work simplification. Administration of an office. Supervision.

314	English	(3-0-3)	Description of technical statements related to the texts. Vast vocabulary of technical words scientific and non-scientific belonging to the phraseology of science; practice in technical writing. emphasis is put on the study of instructions.
315	English	(3-0-3)	Brief introduction to technical reports and presentation.
326	English	(3-0-3)	Provides wide acquaintance with composition, comprehension, words of often confused, idioms and expressions, text books, with emphasis on report writing as applied to academic field and inspection report.
417	English	(2-0-2)	Reading of academic texts with exercises of translation and stress on the main point of comprehension.
428	English	(2-0-2)	Essentials of English oral practice, emphasis on the study of vocabulary, intonation and conversation (listening comprehension).
512	English	(2-0-2)	Continuation of training in written work, aiming at precise analysis of academic and scientific texts (technological texts, inspection report).
410	Organization & Management	(2-0-2)	Concept of organization and management. Specialization of work. Principles of organization. Administrative staff services. The role of organization and management service and analysis. Administrative survey. Work simplification. Administration of an office. Supervision.

COURSE NUMBER IDENTIFICATION

First Digit Year
Second Digit Semester

CURRICULUM

DEPARTMENT OF INDUSTRIAL DESIGN

CURRICULUM

1945

means

means

means

Year

Semester

Course Step

First Year

1st Semester

111	English	3	0	3
111	Mathematics	3	0	3
111	Chemistry	3	3	4
111	Drawing	0	4	2
111	Visual Design	0	4	2
111	Fine Art	0	4	2
111	Anatomy	1	3	3
110	Wood Working	1	3	2
111	Industrial Drawing	0	6	3
		11	27	24
Physical Education				1

First Year

2nd Semester

122	English	3	0	3
122	Mathematics	3	0	3
122	Chemistry	3	3	4
122	Drawing	0	4	2
122	Visual Design	0	4	2
122	Fine Art	0	4	2
122	Anatomy	1	3	3
120	Metal Working	1	3	2
122	Industrial Drawing	0	6	3
		11	27	24

Second Year

3rd Semester

213 English	3	0	3
213 Fine Art	0	4	2
211 History of Art	2	0	2
211 Exhibition	1	3	2
211 Materials and Processes	2	0	2
211 Industrial Design	2	4	4
211 Ceramics Design	1	3	2
211 Textile Design	1	3	2
211 Metal Design	1	3	2
211 Furniture Design	1	3	2
	14	23	23

Second Year

4th Semester

224 English	3	0	3
224 Fine Art	0	4	2
222 History of Art	2	0	2
222 Exhibition	1	3	2
222 Materials and Processes	2	0	2
222 Industrial Design	2	4	4
222 Ceramics Design	1	3	2
222 Textile Design	1	3	2
222 Metal Design	1	3	2
222 Furniture Design	1	3	2
	14	23	23

Third Year

5th Semester

315	English	3	0	3
31A	Elective in Fine Art	0	4	2
310	Music Appreciation	1	0	1
313	Exhibition	1	3	2
311	History of Furniture	1	0	1
313	Materials and Processes	2	0	2
313	Industrial Design	2	4	4
31B	Elective in Design	1	6	3
31C	Elective in Design	1	6	3
		<u>12</u>	<u>23</u>	<u>21</u>
31A	<u>Elective in Fine Art</u>	31B, 31C	<u>Elective in Design</u>	
32A		32B, 32C		
			Ceramics Design	
			Textile Design	
			Metal Design	
			Furniture Design	

Third Year

6th Semester

326 English	3	0	3
32A Elective in Fine Art	0	4	2
320 Philosophy	0	0	1
324 Exhibition	1	3	2
322 History of Furniture	0	0	1
324 Materials and Processes	2	0	2
324 Industrial Design	2	4	4
32B Elective in Design	1	6	3
32C Elective in Design	1	6	3
321 Package Design	3	3	2
	13	26	23

Fourth Year

7th Semester

315 English	3	0	3
31A Elective in Fine Art	0	4	2
310 Music Appreciation	1	0	1
313 Exhibition	1	3	2
311 History of Furniture	1	0	1
313 Materials and Processes	2	0	2
325 English	2	0	2
417 English	2	0	2
410 Organization and Management	2	0	2
410 Aesthetic	2	0	2
411 Photography	3	0	3
411 Research of Old Thai Art	0	4	2
415 Industrial Design	2	4	4
41A Elective in Design	1	6	3
41B Elective in Design	1	6	3
412 Package Design	1	3	2
	12	26	22

Fourth Year

8th Semester

428 English	2	0	2
420 Economics	2	0	2
422 Photography	1	3	2
420 Art Criticism	2	0	2
422 Research of Old Thai Art	0	4	2
426 Industrial Design	2	4	4
42A Elective in Design	1	6	3
42B Elective in Design	1	6	3
423 Package Design	1	3	2
	12	26	22
Office Practice			1

Fifth Year

9th Semester

519	English	2	0	2
510	Marketing	2	0	2
513	Research of Old Thai Art	2	0	2
517	Industrial Design	2	2	4
51A	Elective in Design	1	6	7
51B	Elective in Design	1	6	7
514	Package Design	1	3	4
		9	27	36

Fifth Year

10th Semester

520	Thesis in Industrial Design	15
1st Year—3rd Year	139 Credits	
4th Year—5th Year	80 Credits	
1st Year—5th Year	219 Credits	

Course Descriptions

Department of Industrial Design

- 110 Wood Working (1-3-2)
Theory and practice to develop skills and use of basic hand and machine tools employed in machine shop work.
- 110 Metal Working (1-3-2)
Theory and practice to develop skills and use of basic hand and machine tools employed in machine shop work.
- 211 Materials and Processes (2-0-2)
A study of the nature of wood, properties of wood, seasoning, classification of wood, and wood working processes.
- 222 Materials and Processes (2-0-2)
A study of the nature of pure metals, mechanical properties of metals, iron and steel, and metal working processes.
- 313 Materials and Processes (2-0-2)
A study of ceramic materials and processes.
- 324 Materials and Processes (2-0-2)
A study of the nature of rubber, fiber glass, plastics and processes of manufacture.
- 211 Industrial Design (2-4-4)
Introduction to industrial design, a study of the fundamental concepts of industrial design
- 222 Industrial Design (2-4-4)
A study of the technical, economic, environmental, and cultural factors which have influenced the design of objects of utility in the past and which condition contemporary industrial design.

- 313 Industrial Design (2-4-4)
Development of the theory and practice of design in various materials.
- 324 Industrial Design (2-4-4)
Creative design problems in the option.
- 415 Industrial Design (2-4-4)
Study in industrial design, with reference to processes of manufacture.
- 426 Industrial Design (2-4-4)
Advanced study in industrial design, with reference to processes of manufacture.
- 517 Industrial Design (2-8-6)
Design of objects for mass production which meet the requirements of aesthetic appeal, social need, and practical function.
- 528 Industrial Design (0-30-15)
Thesis in Industrial design, a final problem in industrial design chosen by the student and approved by the committee.
- 211 Ceramics Design (1-3-2)
Introduction to ceramic design, a brief history on ceramic design, a study of raw materials and chemicals, forming by hand, forming on the wheel and jiggering.
- 222 Ceramics Design (1-3-2)
Preparation of the clays and bodies for throwing and slip. A study of plaster mold for casting, pressing, and jiggering; firing and glaze.
- 313 Ceramics Design (1-6-3)
Ceramic chemicals, a study of chemical and physical properties of clays, ceramic bodies, firing and glaze.

- 324 Ceramics Design (1-6-3)
Ceramic chemicals, a study of glazing formula, methods of compounding glaze, standard glaze, under glaze and over-glaze decoration.
- 415 Ceramics Design (1-6-3)
Advanced ceramic chemicals, calculation of mineral content of bodies, classification of ceramic bodies; earthen ware, stoneware, porcelain, refractory; and commercial bodies.
- 426 Ceramics Design (1-6-3)
Advanced ceramic chemicals, calculation of glaze formula. A study of kilns, technique of firing.
- 517 Ceramics Design (1-6-3)
Creative ceramic design which meets the requirements of aesthetic appeal, social need, and practical function.
- 211 Textile Design (1-3-2)
A study of chemical and physical properties of fibres and yarns.
- 222 Textile Design (1-3-2)
Study of dyes and dying technique.
- 313 Textile Design (1-3-2)
Study of weaving technique and structural design.
- 324 Textile Design (1-3-2)
Design of woven textiles for decoration.
- 415 Textile Design (1-6-3)
Advanced in textile design.
- 426 Textile Design (Silkscreen) (1-6-3)
Basic of silkscreen design and techniques.

- 517 Textile Design (Silkscreen) (1-6-3)
Advanced design of pattern making for silkscreen and silkscreen techniques.
- 211 Metal Design (1-3-2)
A study of principles of design and practice in general metal work, machine shop, sheet metal work.
- 222 Metal Design (1-3-2)
Design and practice in forging, sawing, wire work, soldering, and treating metals for industrial arts.
- 313 Metal Design (1-3-2)
Theory and practice in electroplating, cleaning, polishing, and finishing.
- 324 Metal Design (1-6-3)
Design and practice in enameling on metals.
- 415 Metal Design (1-6-3)
Advanced design and practice in enameling on metals as a decorative metal craft.
- 426 Metal Design (1-6-3)
Basic design and practice in nielloware.
- 517 Metal Design (1-6-3)
Advanced design and practice in nielloware.
- 211 Furniture Design (1-3-2)
A study of function and proportion of furniture, human scale, human engineering, and processes of furniture making.
- 222 Furniture Design (1-3-2)
Study of materials and methods of furniture making, structural design and techniques of furniture making, design and practice in modular scale.

- 313 Furniture Design (1-6-3)
Furniture design and practice in work shop.
- 324 Furniture Design (1-6-3)
Furniture design and practice in work shop.
- 415 Furniture Design (1-6-3)
Theory and practice in mass production with reference to processes of manufacture.
- 426 Furniture Design (1-6-3)
Advanced problems in mass production.
- 517 Furniture Design (1-6-3)
Creative design which meet the requirements of aesthetic appeal, social need, and practical function.
- 321 Package Design (1-3-2)
Introduction to package design, a study of the fundamental concepts of package design.
- 412 Package design (1-3-2)
Uses; forms, textures, and colours in package design.
- 423 Package Design (1-3-2)
Development of packaging and packing convenience.
- 514 Package Design (1-3-2)
Creative package design which meet the requirements of aesthetic appeal, social need, and practical function.
- 111 Industrial Drawing (0-6-3)
Principles of freehand and mechanical illustration drawing, pictorial, isometric, oblique, shade and shadow projections; dimensions and sections.
- 122 Industrial Drawing (0-6-3)
Working drawing, introduction to creative design, graphics, schematic drawing, perspective.

- 111 Freehand Drawing (0-4-2)
Drawing of plants and objects and drawing from life in the various mediums for the purpose of training the student's eye and hand.
- 122 Freehand Drawing (0-4-2)
Drawing from nature, out of doors and in the studio. Life drawing in the various techniques and water colour.
- 310 Music Appreciation (1-0-1)
Recitation and lectures with recorded examples of melody, harmony, rhythm, vocal and instrumental timbre, form, and program and absolute music.
- 111 Visual Design (0-4-2)
The formal elements of design are emphasized in making experimental, abstract composition on two dimensional surfaces, with an imaginative range of materials and media.
- 122 Visual Design (0-4-2)
Students are presented with three dimensional problems of joining in space, the formal elements of artistic compositions in a unified manner. A variety of materials and methods are used.
- 111 Fine Arts (0-4-2)
Beginning course in painting, modeling and basic sculpture form, and basic graphic arts.
- 122 Fine Arts (0-4-2)
Composition and colour in painting, sculpture, and graphic arts.
- 213 Fine Arts. (0-4-2)
A study of form texture, colour, space, and technique in painting, sculpture, and graphic arts.

- 224 Fine Arts (0-4-2)
Any medium or subject, composition, interpretation, expression in painting, sculpture, and graphic arts.
- 211 History of Arts. (2-0-2)
Painting, sculpture, and architecture from prehistoric time to the end of the middle ages.
- 222 History of Arts (2-0-2)
Painting, sculpture, and architecture from the renaissance to the present.
- 111 Anatomy
The fundamental concepts of human anatomy required to acquaint the students with emphasis on drawing in order to have knowledge of internal structure, that is, of the bones which compose the frame work and define its proportion and of the muscles and tendons which directs, its action.
- 122 Anatomy
Drawing from anatomical figures and living models are designed to acquaint the students with ability to construct figure, that is in addition to relate with artistic purpose when they advance in their career as designer.
- 410 Aesthetics (2-0-2)
A historical study of the principle theory of art and beauty from ancient through contemporary time. The relation of artistic activity to science, religion and everyday living, concerning artist and people.
- 411 Basic Photography (1-3-2)
Introduction to photography, the use of the dark room and presentation of photograph.

- 422 Creative Photography (1-3-2)
Photography as a contemporary art form; investigating and relating technical and artistic fundamentals.
- 420 Art Criticism (2-0-2)
A critical study of the chief interpretation of the meaning and function of art; material and process; life and work of the artists, to be used as a criteria of judgement in advance.
- 411 Research of Old Thai Art. (0-4-2)
A research of Thai painting, sculpture and architecture.
- 422 Research of Old Thai Art. (0-4-2)
A research of Thai lacquer ware, ceramic art, and folk art.
- 513 Research of Old Thai Art. (0-4-2)
A reseach of Thai mural paintng. and wood carving.
- 311 Graphic Arts. (1-6-3)
Basic silk screen for artistic fundamentals.
- 322 Graphic Arts.
Silk screen as a contemporary art form.
- 311 Painting (1-6-3)
Oil painting of art, and mix media.
- 322 Painting (1-6-3)
Painting from imagination with emphasis on composition and development of individual technique.
- 311 Sculpture (1-6-3)
Modeling or carving, plaster, wood, and metals.

322 Sculpture (1-6-3)

Composition from carving plaster, wall sculpture, and fountain.

420 Economics (2-0-2)

A study of fundamental economic principles as an aid in understanding modern economic society.

510 Marketing (2-0-2)

Factors involved in the management of the marketing function relative to product development, promotion, pricing, physical distribution, and the determination of marketing objectives within the framework of marketing system and available markets.

111 Chemistry (3-3-4)

Material substance, atomic structure and periodic table, chemical bonding, stoichiometry, gases, liquids and solution; acids, bases and salts; oxidation reduction reactions. Electrolysis, chemical kinetics, chemical equilibrium, elements of thermochemistry, qualitative and quantitative analysis.

122 Chemistry. (3-3-4)

Inorganic chemistry
Systematic study of important elements including Hydrogen, Oxygen, Halogens, Sulfur Nitrogen and industrial metals, and their compounds.

Some transition metals and their compounds including Iron, Cobalt and Nickel.

Organic chemistry

Hydrocarbons, alcohols, ethers, acids, amines, carbohydrates, sugars, plastic and rubbers.

111 Analytic Geometry & Calculus (3-0-3)

Graphs (properties of graphs), cartesian space, limit and continuity, differentiation & indefinite integration of the simple algebraic and trigonometric functions, applications (maxima & minima), higher, derivative, differential, technique of integration, definite integrals.

122 College Algebra, Analytic Geometry & Calculus (3-0-3)

Inequalities, absolute value, applications of definite integral, approximate integration, improper integration, improper integrals, evaluation of real roots of equations, concepts of analytic geometry:- straight lines, circles and conic sections.

111 English (3-0-3)

Emphasis in this course is laid upon review of English grammatical structure. Reading of selected passages with exercises on comprehension and composition. Laboratory exercise for practice in listening and repeating after native speaker pronunciation & conversation is included in the course.

122 English (3-0-3)

This course which is more advanced than 111 will bridge the gap between basic grammar courses and the further courses in Technical English preparing the students for 213 & 224.

213 English (3-0-3)

Term of elementary mechanics and physics, structures and vocabulary concerning the following; expression of result, condition expression of purpose, patterns of time statements, sequence.

- 224 English (3-0-3)
Description of technical statements related to the texts.
Vast vocabulary of technical words scientific and non-scientific belonging to the phraseology of science; practice in technical writing, emphasis is put on the study of instructions.
- 315 English (3-0-3)
Brief introduction to technical reports and presentation.
- 326 English (3-0-3)
Provides wide acquaintance with composition, comprehension, words of often confused, idioms and expressions, text books, with emphasis on report writing as applied to academic field and inspection report.
- 417 English (2-0-2)
Reading of academic texts with exercises of translation and stress on the aiming point of comprehension
- 428 English (2-0-2)
Essentials of English oral practice, emphasis on the study of vocabulary, intonation and conversation (listening comprehension)
- 519 English (2-0-2)
Continuation of training in written work, aiming at precise analysis of academic and scientific texts (technological texts, inspection report.
- 410 Organization & Management (2-0-2)
(1-0-0) Concept of organization and management. Specialization of work. Principle of organization. Administrative Staff Services. The role of organization and management Service and-analysis. Administrative survey. Work simplification. Administration of and office. Supervision.

- 211 Exhibition (1-3-2)
A study of space, form, influence of color and psychology.
- 222 Exhibition (1-3-1)
Space analysis, circulation, and ligating.
- 313 Exhibition (1-3-2)
Study of display partition structure and technique of construction, display window and advertising design.
- 324 Exhibition (1-3-2)
Design and practice in indoor exhibition and outdoor exhibition.

