

MSc

ERASMUS FURNITURE 4.0 (Jan 2019) INTERIOR DESIGN SPACE ARCHITECTURE



*Proposed by; Prof Madya Dr Azimin Tazilan
Presented by: Prof Dr Sarani Zakaria*



MASTER COURSEWORK & RESEARCH (40 units)

CORE 16
ELECTIVE 12
PROJECT 12



https://www.youtube.com/watch?v=6fDBM_EQDUM



Lectra Cutting Room 4.0 for Made-to-Order Furniture:

THE 4.0 industry



https://www.youtube.com/watch?v=6fDBM_EQDUM

<https://www.youtube.com/watch?v=KUKI-c5uWbM>

MARKET INDUSTRY



Loose Furniture



Semi Loose Furniture



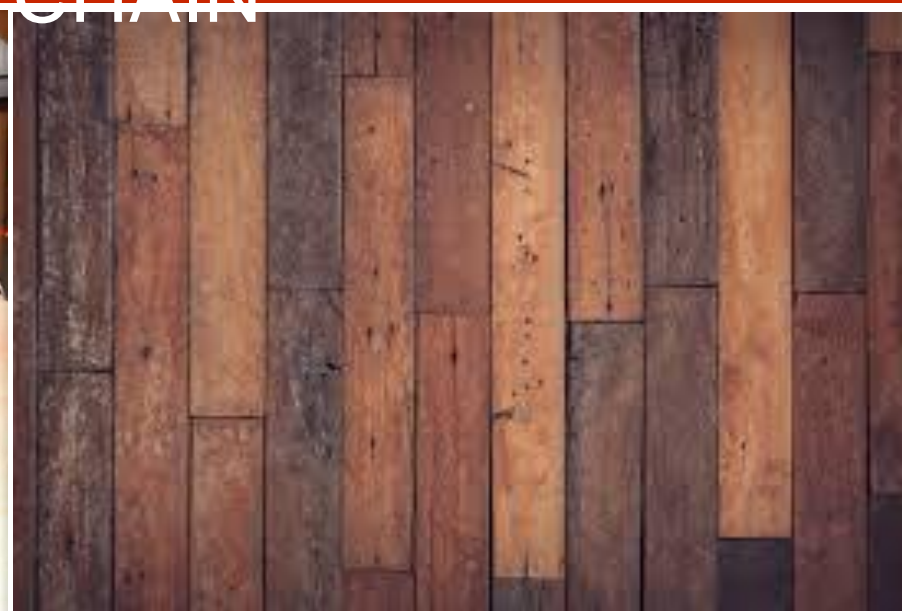
Buil-In Furniture



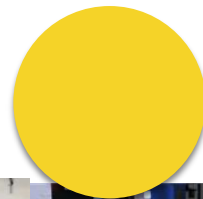
Wood Nature



PROPOSED INDUSTRY FIELD OF CHAIN



Wood Process System



Furniture 4.0 Industry Ideation + Application



MASTER OF INFORMATION TECHNOLOGY (INDUSTRIAL INFORMATICS)

COURSEWORK

| COMPONENTS | UNITS |
|---|-----------|
| Core Courses | 16 |
| TR6584 Industrial Modeling and Simulation TR6364 Statistical Process Control TR6344 Supply Chain Management TR6534 Computer Integrated Manufacturing | |
| Elective Courses | 12 |
| Choose 3 courses below or any masters level courses offered and advised by Head of Programme | |
| TR6324 Real Time System TC6414 Knowledge Discovery and Data Mining TA6224 Object-oriented Programming | |
| TR607C Project | 12 |
| Total Unit | 40 |

MASTER OF COMPUTER SCIENCE (HIGH PERFORMANCE COMPUTING)

COURSEWORK

| COMPONENTS | UNITS |
|---|-----------|
| Core Courses | 16 |
| TA6434 Algorithm and Data Structure TA6604 HPC Architecture and Technology TA6054 Advanced Numerical Analysis TA6124 Parallel and Distributed System | |
| Elective Courses | 12 |
| Choose 3 courses below or any masters level courses offered and advised by Head of Programme | |
| TA6224 Object-oriented Programming TN6334 Mobile and Web Programming TC6404 Image Processing and Computer Vision TC6544 Advanced Artificial Intelligence TR6324 Real Time Systems | |
| TA607C Project | 12 |
| Total Unit | 40 |

MASTER of DESIGN & FURNITURE WOOD TECHNOLOGY



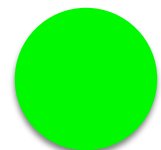


MASTER COURSEWORK & RESEARCH (40 units)

CORE 16 ●

ELECTIVE 12 ●

PROJECT 12 ●



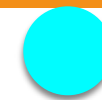
Wood Nature : Forestry, Environment



Wood Processing : Property, Technology, Composite, Engineering, etc



Industry Application: Ideation, Design, IT, Simulation (VR, AR), Management



Mobility in UKM

- Student Exchange
- Staff Exchange

Experience 1: Erasmus Mundus 2014-2017

€3,007,075

| COUNTRY | UNIVERSITY | | CO ORDINATOR |
|-----------------|---|-------------|--|
| Czech Republic | Czech University of Life Sciences Prague | CULS | Petra Chaloupková, Ingrid Melnikovová, Jana Hummelová, Olga Leuner |
| Indonesia | Tadulako University | UNTAD | Aiyen |
| Austria | University of Natural Resources and Life Sciences, Vienna | BOKU | Margrita Calderon Peter, Dietmar Haltrich |
| France | SupAgro Montpellier | MSA | Didier Pillot, Jean-Luc Bosio |
| Germany | University of Göttingen | UGOE | Netra Bhandari |
| Poland | Warsaw University of Life Sciences | SGGW | Mieczyslaw Rygalski, Ewelina Beliewicz |
| Portugal | University of Porto | UP | Ana Reis, Ana Paiva |
| The Netherlands | Wageningen University | WU | Zhu, Xueqin |
| Cambodia | Royal University of Agriculture | RUA | Mom Seng |
| Cambodia | Chea Sim University of Kamchay Mea | CSUK | Pin Vannaro |
| China | Nanjing Agricultural University | NJAU | Feng Shuyi |
| Indonesia | Bogor Agricultural University | IPB | Anas Fauzian |
| Laos | National University of Laos | NUOL | Silinthone Sacklokham |
| Malaysia | Universiti Kebangsaan Malaysia | UKM | Sarani Zakaria |
| Mongolia | Mongolian State University of Agriculture | MSUA | GANCHIMEG Gombodorj |
| Philippines | Mindanao State University at Naawan | MSUN | Asuncion De Guzman |
| Thailand | Prince of Songkla University | PSU | Chutima Tantikitti |
| Thailand | Kasetsart University | KU | Dr Sornprach Thanisawanyangkura, Dr Poonpipope Kasemsap |
| Vietnam | Hanoi University of Agriculture | HUA | Le Thi Bich Lien |
| Vietnam | Hue University | HUE | Hoang Huu Hanh |

Types of Exchange

- Under graduate 1-2 semester (credit transfer)
- Under graduate full term (full term) – target group 3
- Post Graduate – MSc – full term or 1 semester (research or course work)
- Post Graduate PhD – 10 months (research)
- Post Doctorate – 6 months (research)
- Staff exchange – 1 months (research and teaching)

Research and Facilities

Research collaboration

- Joint supervision
- Joint publication
- Research facilities – UKM and nearby University and Research Institution

Facilities – accommodation

- Student accommodation
- International guest room
- Guest house

Research Topics in Bioresources

- Wood Composites, WPC
- Bioresin: adhesives, coating
- Pulp and Paper
- Membrane and Filtration
- Cellulose – Regenerated and Derivatives
- Biorefinery and BioFuel
- Nanotechnology etc
- Design and Technology
- Chemistry and Polymer synthesis
- Mechanism and Simulation
- Bioactive materials
- Anti oxidant
- Food flavour and analysis
- Polysaccharides and food derivatives
- Biotechnology – enzyme
- Sensor from Natural polymer
- Polymer electrolyte
- Tissue engineering – wound healing etc
- Multi omic
- Biochemistry – extraction of chemical constituent and applications
- Biomaterials
- Radiation chemistry and physics
- etc