

# Master Program on Digital Media and Game Technology

**School of Electrical Engineering and Informatics**

INSTITUT TEKNOLOGI BANDUNG – SEAMOLEC-  
UNIVERSITAS NEGERI MAKASSAR

# CURRICULLUM OVERVIEW

- Credits : 36 - 46
- Durations : 3 Sem., 20 Months
- Characteristics :
  - Product-oriented (Game, Digital Media or other products)
  - Multi-disciplines
  - High skill on programming or embedded application
  - Team works and Networks



# CURRICULLUM STRUCTURE



## ■ Bridging (10 Cr.)

- Algorithm (2 Cr.)
- Data Structure (2 Cr.)
- Computer Organization (2 Cr.)
- C Programming (2 Cr.)
- Self access study (2 Cr.)

## ■ 1<sup>st</sup> Semester (12 Cr.)

- GPU and Comp.Graphics(3 Cr)
- Interaction Design (3 Cr.)
- Digital Media Appl. Design (3 Cr.)
- Intelligent System (3 Cr.)

# CURRICULLUM STRUCTURE

## ■ 2<sup>nd</sup> Semester (12 Cr.)

- Elective Course 1 (3 Cr.)
- Elective Course 2 (3 Cr.)
- Independent Work I (3 Cr.)
- Profesion Ethics (3 Cr.)

## ■ 3<sup>rd</sup> Semester (12 Cr.)

- Elective Course 3 (3 Cr.)
- Elective Course 4 (2 Cr.)
- Independent Work II (3 Cr.)
- Final Project (4 Cr.)



# CURRICULUM STRUCTURE

## ■ Elective Courses

- 3D Modelling & Animation (3 Cr.)
- Virtual and Augmented Reality (3 Cr.)
- Game Engine Design & Dev (3 Cr.)
- Adv. Computer Architecture (3 Cr.)
- Adv. Computer Network (3 Cr.)
- Problem Solving using OOP
- Mobile Application Development
- Methodology Design
- IP Multimedia System
- etc



# TEACHING METHODS

- Video-Conference (Interactive course)
- On-line course
  - Course posting (video course download, syllabus, schedule and hand-out)
  - Broadcast course (Studium General)
  - Chatting
  - E-mail communication
- Direct course



# EVALUATION METHODS

## Courses

- Quiz
- Midtest
- Final Exam
- Home Assignment (Independent Work courses)
  - Individual
  - Team
- Project Presentation
  - Working paper
  - Oral presentation



# EVALUATION METHODS

## Final Project

- Project Proposal Seminar
- Product Documentation
- Thesis Presentation
- Those methods are integrated with independent work courses evaluation
- Product presentation/ product demonstration in open-public student seminar (at local and at ITB)



# Schedule of Direct Lectures at ITB

Month

1 - 2

Preparation and Bridging Courses

5

Final Examination and Project Plan

9

Final Examination and Consultation  
for IW 1

14

Final Examination, Consultation for IW2  
and Preparation for Final Project

19-20

Final Project and Open Public Seminar



# TUITION SPP

- Total : Rp. 21.000.000 (20 bulan)
  - Tuition fees : Rp. 14.000.000,-
  - Credit Unit fees : 40 x Rp. 100.000,-
  - Final Project/Thesis fees:  
Rp. 3.000.000,-
  - Excludes Selection/Admission fees,  
course and graduation fees



# SELECTION GENERAL REQUIREMENT

- Education Background :
  - S1 in Engineering, Science, or engineering education
  - D4 in Engineering
- Age: Max. 40 years old (for Scholarship)
- S1 IPK  $> 2.75$  or D4 IPK  $> 3.0$
- TPA  $> 500$  from OTO BAPENAS
- English Language
  - EPT  $> 77$  from UPT Bahasa ITB, or
  - TOEFL  $> 500$  from accredited Inst.



# SELECTION SUBMITTED DOCUMENTS

- Filled S2 Application Form (downloaded from [www.unm.ac.id](http://www.unm.ac.id))
- Copy of S1/D4 certificate approved by University
- Copy of S1/D4 Academic Transcript approved by University
- Medical report from Physician
- Recommendation letters from workplace/employer/institution
- submitted to the contact address prior the test/selection date

