PROSPECTUS

Informatics of Universitas Ahmad Dahlan

Faculty of Industrial Technology

WELCOME TO INFORMATICS

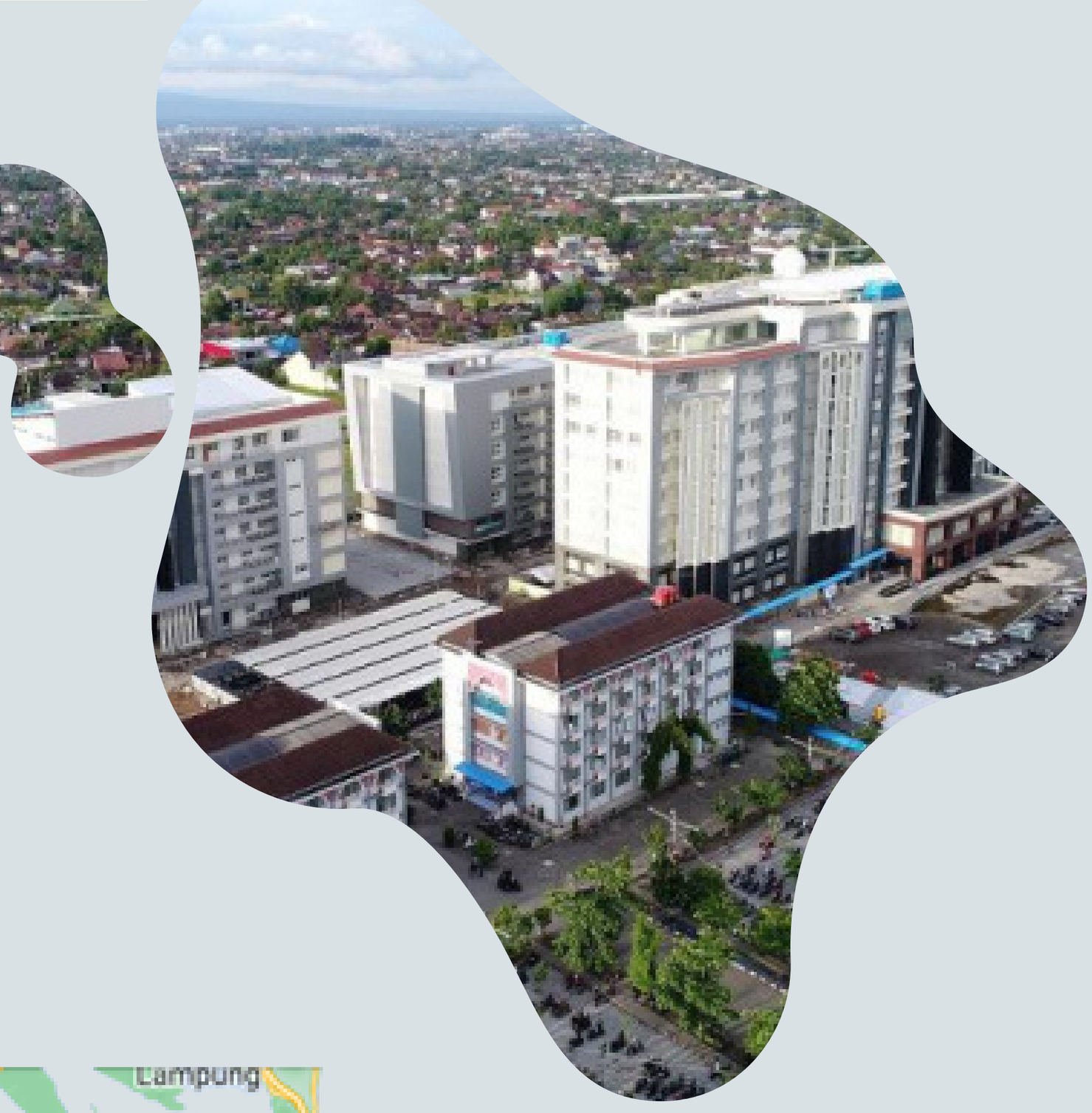
OF FACULTY OF INDUSTRIAL TECHNOLOGY UNIVERSITAS AHMAD DAHLAN

Faculty of Industrial Technology

The Faculty of Industrial Technology was established on December 18, 1994 to manage 2 study programs, namely; Informatics Study Program and Industrial Engineering Study Program. However, now the Faculty of Technology already has 5 undergraduate study programs (Chemical Engineering, Electrical Engineering and Food Technology) and has 2 Masters study programs, namely the Masters of Informatics in 2017 and the Masters of Chemical Engineering in 2020. In its current journey, the Informatics Study Program has successfully become one of the leading study programs at FTI because it has advantages including; the only study program that has: an international class program since 2017, has a Joint degree program that has been registered with the 2017 Ministry of Research, Technology and Higher Education and has accreditation with an A predicate in 2018. The student body of Informatics study programs currently numbers 1,727 students with an average number of students new students every year as many as 430 new students.

As a faculty that has a global vision, it's obvious that the Informatics study program also supports the vision and mission of the faculty. Collaborations that have been implemented from both national and international MoUs have been successfully carried out for collaboration in the fields of education, research and community service with partners from various industrial agencies and government agencies. The implementation of cooperation that has been realized includes Karabuk University-Turkey, National University of Malaysia, Guangxi University-China, University of Pahang Malaysia, Universiti Teknologi Malaysia, Hohai University, China and Universiti Petronas Malaysia, Technology Institute of the Philippines and others.

OUR LOCATIONS



The Faculty of Industrial Technology is located on the 6th Floor of the UAD Main Campus, West building Jalan Ringroad Selatan, Tamanan Banguntapan Bantul, Yogyakarta Indonesia.

3- Prospectus Informatics of Universitas Ahmad Dahlan

WHY

CHOOSE INFORMATICS UNIVERSITAS AHMAD DAHLAN ?

Accredited Institution A

Accredited Program A

International Class Informatics

Joint Degree

Students Exchange

4- Prospectus Informatics of Universitas Ahmad Dahlan

ABOUT INFORMATICS PROGRAM

THE VISION

"To become an excellent and innovative study program in software engineering and intelligent systems field imbued with Islamic values”

OBJECTIVES

Undergraduate Informatics Study Program aims to materialize:

1. Appreciation and practice of Al Islam and Kemuhammadiyahan values for all academics and teaching staff.
2. Mastery of science and technology based on Software Engineering and intelligent systems that benefit society.
3. Useful strategic partnerships in education, research, and community service with local, national and international partners.
4. Study program that is credible, transparent, accountable, responsible and fair.
5. Professionalism as a lecturer through an active role in organizations and society

THE PROFILE OF UNDERGRADUATE PROGRAM OUTCOMES

1. UAD Informatics graduates are successful in their careers and become professionals in their fields with intellectual character and integrity
2. UAD Informatics graduates are able to compete internationally according to their profession
3. UAD Informatics graduates are able to behave according to Islamic values

CURRICULUM

The Faculty of Industrial Technology has implemented an Outcome Base Education (OBE) based curriculum for all study programs. The Informatics Study Program has implemented the OBE Curriculum since 2021. This curriculum fully implements “Merdeka Belajar Kampus Merdeka” policy (Free Campus Independent Learning policy) in accordance with the Regulation of the Minister of Education and Culture (Permendikbud) Number 3 of 2020. Students can take a number of courses outside the study program, both at UAD or even at other universities, domestically and abroad.

The OBE curriculum is implemented by integrating the OBE and IQF curricula that have been established by the Association of Informatics and Computer Colleges.

The UAD Informatics Study Program curriculum is designed to be taken by students in 8 semesters or 4 years. However, students with good academic achievement can complete it in 7 semesters or 3.5 years. This has been proven by more than 16 students being able to complete their studies in less than 4 years by following the recommendations in the curriculum.

CURRICULUM

Semester 1				
No	**Course Code**	**Course Name**	**Semester**	**Credits**
1	211810230	Basic Programming	1	3
2	211810331	Basic Computer Systems	1	3
3	211810431	Informatics Calculus	1	3
4	211810531	Informatics Logic	1	3
5	211810630	Data Management and Information	1	3
6	211810811	Basic Programming Practice	1	1
			Total	**16**

Semester 2				
No	**Course Code**	**Course Name**	**Semester**	**Credits**
1	211820230	Programming Algorithms	2	3
2	211820320	Matrix Linear Algebra	2	2
3	211820430	Computer Architecture	2	3
4	211820520	Indonesia Language	2	2
5	211820631	Discrete Mathematics	2	3
6	211820731	Web Programming	2	3
7	211820911	Web Programming practice	2	1
			Total	**17**

Semester 3				
No	**Course Code**	**Course Name**	**Semester**	**Credits**
1	211830341	Data Base	3	4
2	211830431	Object Oriented Programming	3	3
3	211830531	Operating System	3	3
4	211830641	Informatics Statistics	3	4
5	211830731	Data Structure	3	3
			Total	**17**

CURRICULUM

Semester 4				
No	**Course Code**	**Course Name**	**Semester**	**Credits**
1	211840131	Software Analysis and Design	4	3
2	211840231	Computer Graphics	4	3
3	211840330	Human Computer Interaction	4	3
4	211840531	Artificial Intelligence	4	3
5	211840630	Data Communications and Computer Networks	4	3
6	211840711	Data Communication and Computer Network Practices	4	1
7	211840831	Algorithmic Strategy	4	3
			Total	**19**

Semester 5				
No	**Course Code**	**Course Name**	**Semester**	**Credits**
1	211850131	Security Computer	5	3
2	211850231	Mobile Programming	5	3
3	211850320	Introduction to Project Management and Principles	5	2
4	211850420	Theory of Automated Language	5	2
5		Elective 1	5	3
6		Elective 2	5	3
7		Elective 3	5	3
			Total	**19**

CURRICULUM

Semester 6				
No	**Course Code**	**Course Name**	**Semester**	**Credits**
1	211860120	Information Technology Project Management	6	2
2	211860220	Research Methodology	6	2
3	211860330	Software Engineering	6	3
4	211860431	Multimedia Technology	6	3
5		Elective 4	6	3
6		Elective 5	6	3
7		Elective 6	6	3
			Total	**19**

Semester 7				
No	**Course Code**	**Course Name**	**Semester**	**Credits**
1	211870120	Professional English	7	2
2	211870220	Capita Selecta	7	2
3	211870320	Entrepreneurship	7	2
4	211870440	Community Service	7	4
5	211870520	Interpersonal communication	7	2
6	211870630	Internships	7	3
7	211870720	Socio-Informatics	7	2
			Total	**17**

Semester 8				
No	**Course Code**	**Course Name**	**Semester**	**Credits**
1	211880160	Undergraduate Thesis	8	6
	Total credits			6
	Total credits for S1 Degree			103

CURRICULUM

Elective Courses Semester 5				
No	**Course Code**	**Name Course**	**Semester**	**Credits**
1	211850531	Optimization Techniques	Intelligent System and Software Engineering	3
2	211850631	Digital Forensic	Software Engineering	3
3	211850731	Dynamic Web Programming	Software Engineering	3
4	211850831	Data Mining	Software Engineering	3
5	211850931	Software Quality Assurance	Software Engineering	3
6	211851031	Informatics Robotics	Software Engineering	3
7	211851131	Applied Graphics	Intelligent System	3
8	211851231	Machine Learning	Intelligent System	3
9	211851331	Image Processing	Intelligent System	3
10	211851431	Decision Support System	Intelligent System	3
11	211851531	Retrieval Information Systems	Intelligent System	3

Elective Courses Semester 6				
No	**Course Code**	**Name Course**	**Semester**	**Credits**
1	211860531	Geographic Information Systems	Intelligent System and Software Engineering	3
2	211860631	Information Security	Software Engineering	3
3	211860731	Cryptography	Software Engineering	3
4	211860831	Web Engineering	Software Engineering	3
5	211860931	Distributed System	Software Engineering	3
6	211861031	Data Visualization	Software Engineering	3
7	211861131	Deep Learning	Intelligent System	3
8	211861231	Natural Language Processing	Intelligent System	3
9	211861331	Game Application Development	Intelligent System	3
10	211861431	Pattern Recognition	Intelligent System	3
11	211861531	Computer Vision	Intelligent System	3

PROGRAMS

1. ODD SEMESTER

The odd semester summer camp program provides opportunities for students to learn about data, databases and computer networks. This program is carried out for 1 month. Students will learn about database management, pre-processing and data processing to gain insight. At the end of the program, students will present their final project and take professional certification in databases and data science.

PROGRAM TIMELINE

Week	Activity
I	Welcoming ceremony
	Introduction to Database
	Database Modeling
	Relational Database Scheme
	Cultural Activity
II	Database Management
	Professional Certification I
	Introduction to Data Science
	Data Management
	Cultural Activity

PROGRAM TIMELINE

Week	Activity
III	Machine Learning Algorithm
	Model Evaluation
	Model Deployment
	Professional Certification II
	Cultural Activity

Week	Activity
IV	Final Project Presentation
	Cultural Presentation
	Closing and Evaluation

2. EVEN SEMESTER

The even semester summer camp program provides opportunities for students to learn about multimedia and computer network. This program is carried out for 1 month. Students will learn basic multimedia techniques, creating 2D and 3D objects, and implementing objects in Virtual Reality and Augmented Reality. Students also learn about data communication and computer network. At the end of the program, students will present their final project and take professional certification in the multimedia and computer network field.

PROGRAM TIMELINE

Week	Activity
I	Welcoming ceremony
	Introduction to Multimedia
	Image Representation
	Audio and Video
	2D and 3D Animation
	Cultural Activity

Week	Activity
II	Modeling and Skinning
	Audio Visual Dubbing
	Virtual Reality and Augmented Reality
	Professional Certification I
	Introduction to Data Communication and Computer Network
	Data Transmission
	Computer Network
	Cultural Activity

PROGRAM TIMELINE

Week	Activity
III	IP Address and Sub netting
	Server
	Wireless Network
	Computer Security
	Professional Certification II
	Cultural Activity

Week	Activity
IV	Final Project Presentation
	Cultural Presentation
	Closing and Evaluation

ASSESSMENT AND CERTIFICATE

The Undergraduate Informatics Study Program has a Competency Scheme that has been adjusted to Indonesian Government standards managed by the Universitas Ahmad Dahlan Professional Institute (LSP P1 UAD). The Competency Scheme is intended for students starting in semester 5. Students who have attended training can take the Competency Test organized by LSP P1 UAD to obtain a certificate issued by Indonesian Professional Certification Authority (BNSP). Training will be carried out through class activities, group discussions, computer practice according to the competency scheme material guided by tutors. After the training is completed, a competency exam will be carried out according to the competency scheme taken. The 5 competency schemes owned by S1 Informatics are as follows:

No	Name Schema	Credit
1	Database Administrator	4
2	Junior Network Administrator	4
3	Major Multimedia Designers	3
4	Associate Data Scientist	3
5	Multimedia Technical Director	3

Professional Certification Institute (LSP P1 UAD)

Websites: https://lsp.uad.ac.id .

Address: Jl. Gondosuli No. 1B Semaki Umbulharjo, Yogyakarta.

Telepon : (0274) 563515, 511830, 379418, 371120, Ex.1501

Email : lsp@uad.ac.id

STUDENT ACTIVITIES

Informatics S1 has a student group named the Informatics Student Association (HMIF) which has many program activities in various fields such as:

-Informatics Competitions

-Informatics E-Sport

-Informatics Goes To School

-Organizational Basic Training

-Entrepreneurial Informatics “Peluang Bisnis Digital di Era Milenial”

All student activities are provided with facilities to support activities such as the activity building and its supporting facilities.

SUPPORTING FACILITIES

The Undergraduate Informatics Study Program has four practicum laboratories, namely: Elementary Computing Laboratory, Multimedia Laboratory, Network Laboratory, Database Laboratory. It also has two research laboratories dedicated to each scientific groups in the Undergraduate Informatics Study Program, namely: the Intelligent Systems Research Laboratory and the Software and Data Engineering Research Laboratory, all of which are located on the 6th Floor of the Integrated Lab Building with a capacity of 42 computers in each room. Laboratories and its facilities are free to use for practicum, lecturer & student research, workshops, and competency tests.

Several other facilities, such as: UAD Islamic Center Mosque, Health Services, Sports Facilities, Information Technology Services (UAD Email, Online Journal, Academic Management Information System, Student Academic Portal), Central Library, Internet Access (Eduroam, Wifi BSI UAD, VPN), E-Learning Portal (Elearning.uad.ac.id).

SHORT COURSE PROGRAM INFORMATICS

Summer camp is a cultural program to provide international students an opportunity to experience Indonesian culture and tradition. Students will also participate in a classroom and workshop activity related to their field of discipline. This summer camp is a combination of interactive classes, cultural activity, and field trip to create an interesting project based on their summer camp experiences.

PROGRAM BENEFIT

- Gain learning experience in IT related field
- Opportunity to meet students from different backgrounds
- Experience Indonesian culture and tradition

REQUIREMENTS

- Minimum 2nd semester in home university
- Proficient in English (oral and written)
- Has valid passport
- Letter of endorsement from home university
- International health insurance

REQUIREMENTS

- Accommodation
- Meals during program
- Transportation (pick-up, drop off, during program)
- Field and cultural trip
- Certificate

RECOGNITION

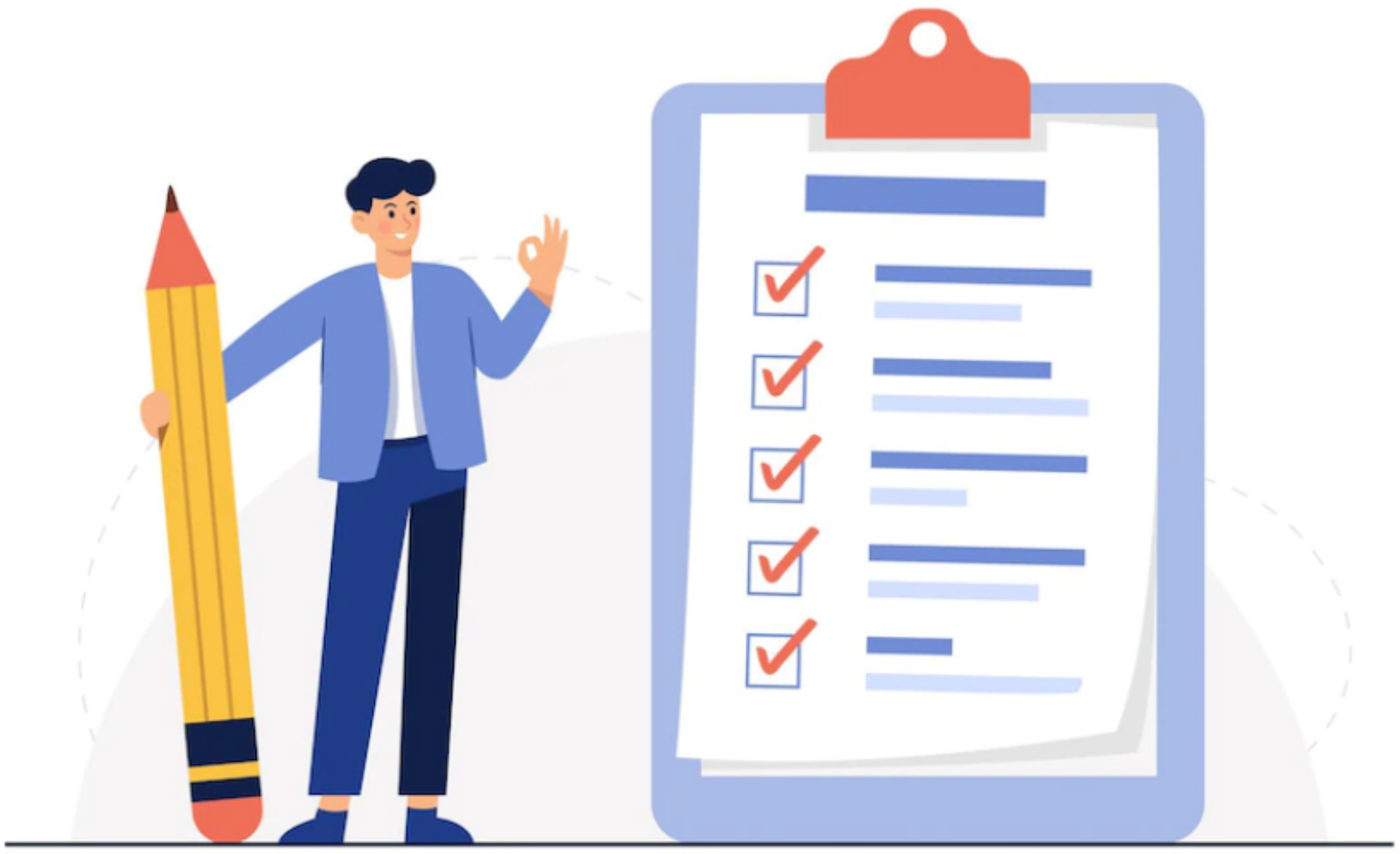
This short course can be converted into Food Product Development (3 credits) Program Timeline short courses join Informatics.

FOR INFORMATION

- Free for 2 first applicant student
- Additional student must pay:
  - $200 for online class
  - $300 for offline class
- Each university can only send a maximum of 6 students

Program Timeline

Day 1	• Opening Ceremony at the Faculty • Introduction to TIF and UAD + campus tour • Summer Camp Program Briefing
Day 2	• Faculty service activities, at UPT Logam Yogya • Cultural Activity (Culinary), eat at wonosari, picnic at heha.
Day 3	• Animation with motion capture • Posttest: animation with motion capture • AR/V • Posttest : AR/VR
Day 4	• Final Project Workshop
Day 5	• Final Project Presentation • Cultural Presentation • Closing and Evaluation (TIF)
Day 6	• City Tour



REGISTRATION

HOW TO APPLY ?

please visit :https://pmb.uad.ac.id/ and pmb-online.uad.ac.id

ADMISSION OF NEW STUDENTS :

UAD Kampus IV (Main Building)
Main Building 2nd Floors
Jalan. Jend. Ahmad Yani, Banguntapan, Bantul, Daerah Istimewa Yogyakarta.
Telp. 0274-563 515
(S1) : 0853 8500 1960 | 0856 267 1960

CAMPUS SERVICES TIME :

Submission Services
Online by website pmb-online.uad.ac.id
Offline Monday – Saturday (08:00 AM– 16:00 PM)

Computer Based Test (CBT) Services
Monday – Saturday (08:00 AM– 16:00 PM)

LECTURE TIMELINE FOR 16 WEEKS:

-Odd Semester Start in September-July
-Even Semester Start in February- August