

Courses taught in English at Agung Putra University, Indonesia

Bachelor level

a. Biomedical Science

Title	Credits	Sem.
Biochemistry	2	2
Medical Microbiology	2	2
Laboratory Techniques in Biomedical Science	2	2
Principle of Human Anatomy and Physiology	4	2
Histology	2	2
Biostatistics	2	3
Immunology	2	3
Basic Pharmacology	2	3
Fundamentals of Cell Biology/ Molecular Biology	2	3
General Pathology	2	3
Bioethics	2	4
Application of the Animal Model in Biomedical Research	4	4
Introduction to Stem Cells		4
Immunomodulation & Translational Research		4
Human Molecular Genetics		4
Molecular Biology of Cancer		4
Clinical Biochemistry		4
Bioprocess & Biomedical Production Technology		4
GMP & Quality Management System		4
Industrial Scale Cell Culture Technology		4
Biomanufacturing Associate		4
Biomedical Product Safety & Risk Analysis Management		4
Introduction to Programming for Biomedical Sciences (Python/R)		4
Bioinformatic		4
AI Introduction in Biomedical Sciences		4
Human-AI Interaction in Biomedicine		4
Machine Learning for Biomedical Applications		4
Stem Cells & Regenerative Medicine		5
Principle in Cell Culture		5
Immunology & Immunotherapy of Cancer		5
Biotherapeutic		5
Cellular Engineering		5

Inflammation & Tissue Repair		5
Data Science for Health & Biomedical Science		5
Biomedical Product Research & Development (R&D)		5
Methodology of Clinical Trials		5
Biomedical Product Registration & Pharmacovigilance		5
Pharmaceutical Regulation of Biological Products		5
Formulasi & Stabilitas Produk Biomedis		5
Innovation Management & Product Commercialization		5
Regulatory Affairs in Health Industry		5
Statistical Learning for Biomedical AI		5
AI for Precision & Regenerative Medicine		5
Neural Networks as Foundation in Deep Learning		5
Computer Vision in Biomedical Imaging		5
Natural Language Processing for Biomedical Data		5
AI for Drug Discovery		5

b. Biotechnology

Title	Credits	Sem.
Biokimia	6	2
Biotech Fundamentals and Biosafety	4	2
Mikrobiologi Dasar/ Fundamentals of Microbiology	2	2
Techniques in Biotechnology	2	2
Calculus	2	2
Biotech Lab I	2	2
Genetics	4	3
Biostatistics	2	3
Cell and Molecular Biology	4	3
Imunologi Dasar/ Basic Immunology	2	3
Computational Thinking	2	3
Biotech industry unit process	2	3
Essentials of Industrial Biotechnology	2	3
Biotech Lab 2	2	3
Cell and Tissue Engineering (Recombinant DNA Technology)	4	4
Biomaterials and Nanotechnology	2	4
Basic Biology of Stem Cells	4	4

Cancer Biology	4	4
Bioinformatics Transformation: Past, Present, Future	2	4
Bioinformatics I: System Basis Data Bioinformatics	4	4
Algorithm and basic coding	4	4
Industrial aseptic operations	2	4
Biotech industry facilities and utilities	2	4
Bioactive separation and purification	2	4
Bioprocess Engineering	2	4
Advance Immunology	4	5
Biopharmaceutical	4	5
Phytomedicine and Natural Products	2	5
Clinical Trials and Regulatory Affairs	4	5
Diagnostik Molecular	4	5
Bioinformatics II: Bioinformatics Data Modelling	4	5
AI foundation: ML,NN, and DL	6	5
Artificial Intelligence in Bioimaging	4	5
Artificial Intelligence in Biosensor	4	5
Bioreactor basic	4	5
Intro to Biotech Industry Project Management and Economic Evaluation	4	5
Good Manufacturing Practice in Biotech Industry	6	5
Occupational Safety and Industrial Environment	4	5