

Lampiran : Surat Keputusan Dekan Fakultas Teknik Universitas Bhayangkara Surabaya  
 Nomor : KEP/ /FTK/02/2024  
 Tanggal : 19 Februari 2024  
 Tentang : Kurikulum Berbahasa Inggris Program Studi Teknik Informatika

**CURRICULUM OF INFORMATIC ENGINEERING STUDY PROGRAM  
 FACULTY OF ENGINEERING-UNIVERSITAS BHAYANGKARA SURABAYA**

<b>1st SEMESTER</b>	<b>Code</b>	<b>Courses</b>	<b>Credits</b>
	1TI1011	Introduction to Informatics Engineering	3
	1TI1021	Information Technology Architecture	3
	1TI1031	Algorithms & Programming	3
	1TI1041	Linear & Matrix Algebra	3
	1TI1051	Introduction to Database	3
	1TI1061	Religious education	3
	1TI1071	Indonesian Language Education	3
	1TI1081	Citizenship Education	3
			<b>24</b>

<b>3rd SEMESTER</b>	<b>Code</b>	<b>Courses</b>	<b>Credits</b>
	3TI2011	Algorithm Design and Analysis	3
	3TI2021	Management Science	3
	3TI2031	Framework Programming	3
	3TI3011	Human & Computer Interaction	3
	3TI4011	Multimedia Operating System	3
	3TI4021	Internet of Things	3
	3TI4031	Image Processing	3
	3TI5021	Design of 2D & 3D Objects	3
			<b>24</b>

<b>2nd SEMESTER</b>	<b>Code</b>	<b>Courses</b>	<b>Credits</b>
	2TI1011	Information Technology Infrastructure	3
	2TI1021	Database Management System	3
	2TI1031	Digital Systems	3
	2TI1041	Graph Theory	3
	2TI1051	Informatics English	3
	2TI1061	Police Law	3
	2TI1071	Web Application Programming	3
	2TI1081	Presentation Techniques	3
		<b>24</b>	

<b>4th SEMESTER</b>	<b>Code</b>	<b>Courses</b>	<b>Credits</b>
	4TI2011	Management information System	3
	4TI2021	Big Data	3
	4TI2031	Retrieval Information System	3
	4TIP111	Practicum : Framework Programming	1
	4TI3011	Advanced Web Application Programming	3
	4TI3031	Advanced Graph	3
	4TI4031	Computer Vision 1	3
	4TIP211	Practicum : Internet of Things	1
	4TI5021	Design of Animations	3
		<b>23</b>	

3rd SEMESTER	Code	Courses	Credits
	3TI1011	Machine Learning 1	3
	3TI1021	Mobile Programming	3
	3TIP011	Practicum : Inform. Techn. Architecture	1
	3TIP021	Practicum : Algorithm & Programming	1
	3TIP031	Practicum : Inform. Techn. Infrastructure	1
	3TI1031	Pancasila	2
			<b>11</b>

4th SEMESTER	Code	Courses	Credits
	4TI1011	Machine Learning 2	3
	4TI1021	Object Oriented Programming	3
	4TIP011	Practicum : Database Management System	1
	4TIP021	Practicum : Mobile Programming	1
			<b>6</b>

5th SEMESTER	Code	Courses	Credits
	5TI1011	Optimization System	3
	5TI1021	Probability and Stochastics	3
			<b>6</b>

6th SEMESTER	Code	Courses	Credits
	6TI1011	Research methods	3
	6TI1021	Industrial Works	3
		<b>6</b>	

7th SEMESTER	Code	Courses	Credits
	7TI1011	Information Technology Research	3
	7TI1021	Technopreneurship 1	3
	7TI1031	Communities Works	3
		<b>9</b>	

5th SEMESTER	Code	Courses	Credits
	5TI2011	Data Mining	3
	5TI2021	Enterprise Resource Planning 1	3
	5TI2031	Software engineering	3
	5TIP121	Practicum : Data Mining	1
	5TI4011	Virtual Reality	3
	5TI4031	Computer Forensics 1	3
	5TIP211	Practicum : Computer Vision	1
	5TIP221	Practicum : Computer Forensics	1
	5TI5011	Computer Vision 2	3
	5TI5021	Design of Visual Communication	3
			<b>24</b>

6th SEMESTER	Code	Courses	Credits
	6TI2011	Information Systems Analysis	3
	6TI2021	Cryptography	3
	6TI3021	Enterprise Resource Planning 2	3
	6TI4011	Augmented Reality	3
	6TI4021	System Simulation	3
	6TI4041	Pattern Recognition	3
	6TI5011	Game Technology	3
	6TI5021	Computer Forensics 2	3
		<b>24</b>	

	Code	Courses	Credits
<b>8th SEMESTER</b>	8TI1011	Final Project	6
	8TI1021	Technopreneurship 2	3
	8TI1031	Professional ethics	3
			<b>12</b>

Mandatory = 98 Credits

	Code	Courses	Credits
<b>7th SEMESTER</b>	7TI2011	Data Science	3
	7TI2021	Decision Support System	3
	7TI4011	GIS & Remote Sensing 1	3
	7TI4021	Bioinformatics	3
	7TI4031	Cybercrime	3
	7TI5011	Ethical Hacking	3
	7TI5021	Smart System	3
			<b>21</b>

	Code	Subjects	Credits
<b>8th SEMESTER</b>	8TI2011	Information Systems Testing	3
	8TI4011	GIS & Remote Sensing 2	3
			<b>6</b>

Surabaya, 19 Februari 2024  
Dekan,

Dr. Eko Prasetyo, S.Kom., M.Kom