

Course Code	TKIT163107									
Course Name	Information Systems									
Course Instructors	Silmi Fauziati									
Course Type	Elective									
Course Classification	Engineering Topics									
Credit / Contact Hour per Week	3 / 150 minutes per Week									
Course Description	This course learn about understanding of Information System covering information system ecosystem, types and usefulness of Information System in organization and company.									
Prerequisites Courses	-									
Covered Student Outcome	<b>Fundamental Engineering Knowledge (a)</b> <b>Development of Engineering Solution (b)</b> <b>Modern Tools Utilization (e)</b>									
Learning Outcome										
		Study Program Student Outcome								
No	Learning Outcome	SO (a) – SO (k)								
1.	Students able to accelerate the concept of Information System	Fundamental Engineering Knowledge								
2.	Students are able to explain the ecosystem of Information System	Development of Engineering Solution								
3.	Students are able to explain and implement the types of Information Systems based on their usefulness	Fundamental Engineering Knowledge								
4.	Student able to understand latest Information System tools and strategy	Modern Tools Utilization								
Topic	<ol style="list-style-type: none"> <li>1. Introduction</li> <li>2. SI in Business world</li> <li>3. Strategic Information Systems</li> <li>4. Information Systems Planning and the Database Design Process</li> <li>5. Systems Analysis</li> <li>6. Business Process and Information Systems Within Organizations</li> <li>7. E Business E Commerce</li> <li>8. Systems from a functional perspective: <ol style="list-style-type: none"> <li>a. Sales and marketing systems</li> <li>b. Manufacturing and production systems</li> </ol> </li> <li>9. Systems from a functional perspective: <ol style="list-style-type: none"> <li>a. Finance and accounting systems</li> <li>b. Human resources systems</li> </ol> </li> <li>10. Systems from a constituency perspective: Transaction processing systems</li> <li>11. Systems from a constituency perspective: Management information systems, decision-support systems and executive support systems</li> <li>12. Types of Integrated, Cross-Functional Information System: Enterprise resource planning (ERP) and Supply chain management systems</li> <li>13. Types of Integrated, Cross-Functional Information System: Customer relationship management (CRM)</li> <li>14. Types of Integrated, Cross-Functional Information System: Knowledge management systems</li> </ol>									
Direct Assessment	<table border="1"> <thead> <tr> <th>Direct Assessment Plan</th> <th>Measured Learning Outcome</th> </tr> </thead> <tbody> <tr> <td>Mid Exam</td> <td>LO1, LO2</td> </tr> <tr> <td>Final Exam</td> <td>LO3, LO4</td> </tr> <tr> <td></td> <td></td> </tr> </tbody> </table>		Direct Assessment Plan	Measured Learning Outcome	Mid Exam	LO1, LO2	Final Exam	LO3, LO4		
Direct Assessment Plan	Measured Learning Outcome									
Mid Exam	LO1, LO2									
Final Exam	LO3, LO4									
Indirect Assesment	Questionnaire and direct communication									
References	<ol style="list-style-type: none"> <li>1. Information Systems Foundations : Theory, Representation and Reality, Dennis N. Hart and Shirley D. Gregor (Editors), Published by ANU E Press The Australian National University, Canberra ACT 0200, Australia.</li> </ol>									

	<ol style="list-style-type: none"><li data-bbox="516 191 1263 247">2. Business Driven Information Systems, Paige Baltzan and Amy Phillips, Amazon</li><li data-bbox="516 247 1317 304">3. Modern Information Systems, Edited by Christos Kalloniatis, ISBN 978-953-51-0647-0, 174 pages, Publisher: InTech</li><li data-bbox="516 304 1268 361">4. Fundamentals of Information Systems, Ralph Stair and George Reynolds, amazon</li></ol>
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