

**PROGRAM OF STUDY
BS MATERIALS ENGINEERING
2023**

<i>First Semester</i>	<i>Units</i>	<i>Second Semester</i>	<i>Units</i>
FIRST YEAR			
KAS1/HIST1. Kasaysayan ng Pilipinas/Philippine History	3	ARTS 1. Critical Perspectives in the Arts	3
COMM 10. Critical Perspectives in Communication Arts	3	MATH 28. Analytical Geometry and Calculus III	3
MATH 27. Analytical Geometry and Calculus II	3	CHEM 40. Basic Organic Chemistry	4
PHYS 71. University Physics I	4	CHEM 40.1. Basic Organic Chemistry Laboratory	1
PHYS 71.1. University Physics I Lab	1	ENSC 10.1. Engineering Graphics Laboratory	2
CHEM 18. University Chemistry	3	ENSC 11. Statics of Rigid Bodies	3
CHEM 18.1. University Chemistry Lab	2	EE 1. Basic Electrical Engineering	3
MatE 10. Introduction to Materials Engineering	1	MatE 21. Structure-Property Relationship of Materials I	3
HK 11. Wellness and Basic Injury Management	<u>(2)</u>	HK 12. Human Kinetics Activities	<u>(2)</u>
	20		22

<i>First Semester</i>	<i>Units</i>	<i>Second Semester</i>	<i>Units</i>
SECOND YEAR			
PHYS 72. University Physics II	4	ETHICS 1. Ethics and Moral Reasoning in Everyday Life	3
PHYS 72.1. University Physics II Laboratory	1	MatE 22. Structure-Property Relationship of Materials II	4
CHEM 32. Quantitative Inorganic Analysis	3	MatE 23. Structure-Property Relationship of Materials III	3
CHEM 32.1. Quantitative Inorganic Analysis Laboratory	2	MatE 103. Rate Processes in Materials Engineering	4
ENSC 13. Strength of Materials	3	ENSC 12. Dynamics of Rigid Bodies	3
ENSC 21. Mathematical Methods in Engineering	3	EE 2. Basic Electronics Engineering	4
MatE 101. Thermodynamics of Materials	4	NSTP 2. National Service Training Program	<u>(3)</u>
NSTP 1. National Service Training Program	<u>(3)</u>		21
	20		

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THIRD YEAR			
STS 1. Science, Technology and Society	3	GE Elective.	3
ENSC 16. Fluid Mechanics	3	IE 184. Project Management and Development	3
ENSC 26. Computer Applications in Engineering	3	MatE 165. Materials Synthesis and Processing	3
IE 150. Systems Evaluation	3	MatE 165.1. Materials Synthesis and Processing Laboratory	2
STAT 162. Experimental Designs	3	MatE 175. Materials Fabrication	3
MatE 105. Materials Analysis and Testing	4	MatE 175.1. Materials Fabrication Laboratory	2
HK 12. Human Kinetics Activities	<u>(2)</u>	MatE 199. Undergraduate Seminar	1
	19	HK 12/HK13. Human Kinetics Activities/Advanced Human Kinetics Activities	<u>(2)</u>
			17

MIDYEAR			
	MatE 198. Internship	3	

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FOURTH YEAR			
GE Elective.	3	GE Elective.	3
ENG 10. Writing of Scientific Papers	3	PI 10. Life and Works of Rizal	3
MatE 171. Degradation of Materials	3	MatE 90. Laws and Ethics for Materials Engineers	2
MatE 194. Materials Selection and Design	5	MatE 173. Forensic Engineering in Materials	3
MatE Elective.	3	MatE Elective.	3
MatE 200/200b/200c. Thesis/Innovationeering/EIR	<u>3</u>	MatE 200/200b/200c. Thesis/Innovationeering/EIR	<u>3</u>
	20		17

TOTAL UNITS: 159

FLOWCHART OF THE BS MATERIALS ENGINEERING PROGRAM

