



*Shri Balasaheb Mane Shikshan Prasarak Mandal's*  
**ASHOKRAO MANE GROUP OF INSTITUTIONS**  
**Vathar Tarf Vadgaon | Kolhapur | Maharashtra**



Record No.: **AMGOI/ACAD/34A**

Revision: **00**

Date: **01/07/2024**

**Course Outcomes (Cos)**

**Department:** Mechanical Engineering

**Academic Year:** 2024 -2025

Course code	Course Name	Course Outcome No.	Course Outcome
<b>BTMC701</b>	<b>Mechatronics</b>	BTMC701.1	Define sensor, transducer and understand the applications of different sensors and transducers
		BTMC701.2	Explain the signal conditioning and data representation techniques
		BTMC701.3	Design pneumatic and hydraulic circuits for a given application
		BTMC701.4	Write a PLC program using Ladder logic for a given application
		BTMC701.5	Understand applications of microprocessor and micro controller
		BTMC701.6	Analyze PI, PD and PID controllers for a given application
<b>BTHM702</b>	<b>Industrial Engineering and Management</b>	BTHM702 .1	Impart fundamental knowledge and skill sets required in the Industrial Management and Engineering profession, which include the ability to apply basic knowledge of mathematics, probability and statistics, and the domain knowledge of Industrial Management and Engineering
		BTHM702 .2	Produce ability to adopt a system approach to design, develop, implement and innovate integrated systems that include people, materials, information, equipment and energy.



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		BTHM702 .3	Understand the interactions between engineering, businesses, technological and environmental spheres in the modern society.
		BTHM702 .4	Understand their role as engineers and their impact to society at the national and global context.
<b>BTMPE703 C</b>	<b>Non-conventional Machining</b>	BTMPE703C.1	Classify Non-conventional machining processes.
		BTMPE703C.2	Understand working principle and mechanism of material removal in various non-conventional machining processes.
		BTMPE703C.3	Identify process parameters their effect and applications of different processes.
		BTMPE703C.4	Summarized merits and demerits of non-conventional machining processes
		BTMPE703C.5	Explain the mechanism to design hybrid processes such as ELID grinding, EDCG, EDCM, etc.
		BTMPE703C.6	Understand mechanism and working principle of micro machining using non-conventional processes.
<b>BTMOE70 4B</b>	<b>Entrepreneur ship Development</b>	BTMOE704B. 1	enlarge the supply of entrepreneurs for rapid industrial development



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		BTMOE704B. 2	Develop small and medium enterprises sector which is necessary for generation of employment
		BTMOE704B. 3	Industrialize rural and backward regions
		BTMOE704B. 4	Provide gainful self-employment to educated young men and women
		BTMOE704B. 5	Diversify the sources of entrepreneurship
<b>BTMOE705C</b>	<b>Intellectual Property Rights</b>	BTMOE705C. 1	State the basic fundamental terms such as copyrights, Patents, Trademarks etc.,
		BTMOE705C. 2	Interpret Laws of copy-rights, Patents, Trademarks and various IP registration Processes.
		BTMOE705C. 3	Exhibit the enhance capability to do economic analysis of IP rights, technology and innovation related policy issues and firms commercial strategies.
		BTMOE705C. 4	Create awareness at all levels (research and innovation) to develop patentable technologies.
		BTMOE705C. 5	Apply trade mark law, copy right law, patent law and also carry out intellectual property audits.
		BTMOE705C. 6	Manage and safeguard the intellectual property and protect it against unauthorized use.



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