

Master of Engineering / Postgraduate Diploma in Manufacturing Systems Engineering

Calling Applications for Intake 2018/ 2019

Application Deadline: 12th of October 2018

The curriculum of the Postgraduate studies in Manufacturing Systems Engineering enhances the knowledge and skills of the participants in many areas. Some of the specific objectives of the course are:

- To provide a sound knowledge of the advanced aspects of manufacturing processes and to introduce recent advances in manufacturing technology with respect to process, machinery, materials and tooling.
- To provide the understanding of complete product development process and impart the knowledge required for developing successful product.
- To improve the students' knowledge and skills of computer-aided draughting and design, and operation & programming of computer controlled manufacturing systems.
- To provide general management background needed by the manufacturing executives for effectively participating in the total business environment of a firm.
- To provide the knowledge and skills required in automating and controlling the functions of the manufacturing processes.
- To enhance the understanding of the impact of human capabilities and limitations on the design and development of products and equipment.
- To develop the skill of handling challenging design/research projects.

ELIGIBILITY REQUIREMENTS

- The Degree of Bachelor of Science of Engineering of the University of Moratuwa in Mechanical Engineering/Textile and Clothing Technology/Materials Science and Engineering/Chemical Engineering/Electrical, **or**
- Any other engineering degree of at least four years duration, from a recognised University, in a relevant field of specialization as may be approved by the Senate, **or**
- Any recognized category of membership of a recognized Professional Institute, obtained through an academic route, with a minimum of one year of recognized appropriate experience obtained after the membership, as may be approved by the Senate.

PROGRAMME OF STUDY:

1. **Postgraduate Diploma (PG Dip):** One Year (part-time)
 - Taught courses and laboratory work, assignments, seminars and field visits
 - All academic work will normally be conducted on Saturdays and Sundays
2. **Master of Engineering (MEng):** Two Years (part-time)

- Successful completion (overall GPA not less than 2.5) of the academic requirements for the Postgraduate Diploma and additional mandatory individual research project leading to a thesis/dissertation meeting the minimum duration condition of the degree.

COURSE CONTENT:

First year of the programme is the taught programme leading to postgraduate diploma in manufacturing systems engineering. Modules are offered over three terms. Following are the modules offered in the first year. Those who proceed to MEng are required to conduct a research project in addition to these taught modules.

	Category	Code	Course Module	Credits
Term 1	Compulsory	ME5101	Decision Analysis for Manufacturing Management	3
		ME5102	Production and Operations Management	3
		ME5103	Computer Integrated Manufacturing	3
		ME5104	Manufacturing Processes	3
Term 2	Compulsory	ME5120	Computer Aided Design and Manufacture	3
		ME5121	Industrial Management	3
	Elective (Minimum two to be selected)	ME5122	Quality Management	3
		ME5123	Supply Chain Management	3
		ME5124	Automation and Control of Manufacturing Systems	3
		ME5125	Manufacturing Processes: Advanced Aspects	3
Term 3	Compulsory	ME5140	Product Design	3
		ME5141	Special Studies	4
	Elective (Minimum three to be selected)	ME5142	Design of Manufacturing Systems	3
		ME5143	Manufacturing Strategy	3
		ME5144	Mechatronics and Robotics	3
		ME5145	Artificial Intelligence in Manufacturing	3
ME5146	Human Factors Engineering	3		
Year 2 (For those who proceed to Master of Engineering)			Research Project	20

COURSE FEES:

1. Tuition Fee:

- PG Diploma (1st Year): LKR 275,000 (Payable in two installments each LKR 137,500)
- MEng (2nd Year): LKR 75,000
- For each additional year beyond 2 years, up to the maximum duration: LKR 30,000 per year.

2. Registration Fee:

- First Year : LKR 2,000 (Payable at Registration)
- Second Year : LKR 2,000
- Examination Fee : LKR 500 (Payable at Registration)
- Library Deposit: LKR 2,500 per item, up to 6 items (Optional and Refundable)

APPLICATION PROCEDURE:

Duly completed applications along with copies of relevant certificates should be sent via **registered post** to the following address to reach us on or before the deadline.

Course Coordinator
MEng/ PG Diploma in Manufacturing Systems Engineering
Department of Mechanical Engineering
University of Moratuwa
Katubedda
Moratuwa

For Inquiries:

Course Coordinator:

Dr. Manoj Ranaweera
Senior Lecturer
Department of Mechanical Engineering

Email: manoj@uom.lk

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Fax: 011-2650622 (Please put "ATTN: Dept. Mech. Eng)

Programme Secretary:

Ms. Sevandi Priyadarshani
Programme Secretary
Department of Mechanical Engineering

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