| | | MSc-IE PROGRAM OUTCOMES | NATIONAL QUALIFICATIONS OF RELATED FIELDS | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A1 | A2 | B1 | B2 | B3 | C1 | C2 | C3 | D1 | E1 | E2 | E3 | E4 | F1 | F2 | F3 |
| ALL PROGRAMS | 1 | Develop the ability to use critical, analytical, and reflective thinking and reasoning | | | | | | | | | X | X | X | | | | | |
| | 2 | Reflect on social and ethical responsibilities in in his/her professional life. | | | | | | | | | | | | | | X | | |
| | 3 | Gain experience and confidence in the dissemination of project/research outputs | | | | | | | | | | X | | | | | | |
| | 4 | Work responsibly and creatively individually or as a member or a leader of a team and in multidisciplinary environments. | | X | | | | X | X | X | | | | | | | | X |
| | 5 | Communicate effectively by oral, written, graphical and technological means and have competency in English. | | | | | | | | | | X | | X | X | | | |
| | 6 | Independently reach and acquire information, and appreciation of the need of continuously learning and updating. | | | | | | | | | X | | | | | | | |
| ENGINEERING | 7 | Design and model engineering systems and processes and solve engineering problems with an innovative approach. | | | X | | X | | X | | | | X | | | | | X |
| | 8 | Establish experimental setups, conduct experiments and/or simulations | | | X | | X | | | | | | | | | | | |
| | 9 | Analytically acquire and interpret data. | | | X | X | | | | | | | | | | | | |
| PROGRAM SPESIFIC | 10 | Establish a strong theoretical background in several of a broad range of subjects related to the discipline, such as manufacturing processes, service systems design and operation, production planning and control, modeling and optimization, stochastics, statistics. | X | | X | | | X | | | X | | | | | | | |
| | 11 | Develop novel modeling and / or analytical solution strategies for problems in integrated production and service systems involving human capital, materials, information, equipment, and energy, also using an interdisciplinary approach whenever appropriate. | X | X | X | X | | X | | | | | | | | | | X |
| | 12 | Implement solution strategies on a computer platform for decision-support purposes by employing effective computational and experimental tools. | | | X | X | | | | | | | | | X | | | |
| | 13 | Acquire skills to independently explore and tackle problems related to the discipline that were not encountered previously. Develop appropriate modeling, solution, implementation strategies, and assess the quality of the outcome. | | X | | X | X | X | | | | | | | | | X | X |