

University of Mumbai

Instrumentation Engineering (Equivalence)

S.E Instrumentation Engineering (Equivalence)

SEMESTER- III

(R-2007)		As per Semester Based Credit and Grading System (REV- 2012)	
1	Transducers-I	ISC305	Transducers-I
2	Analog Electronics	ISC303	Analog Electronics
3	Engineering Mathematics-III	ISC301	Applied Mathematics-III
4	Electrical Network	ISC302	Electrical Network Analysis and Synthesis
5	Digital Electronics	ISC304	Digital Electronics
6	Presentation & Communication Techniques	ISC306	Object oriented programming and methodology

SEMESTER- IV

(R-2007)		As per Semester Based Credit and Grading System (REV- 2012)	
1	Transducers-II	ISC405	Transducers-II
2	Feedback Control System	ISC402	Feedback Control System
3	Electrical Technology & Instruments	ISC403	Electrical Technology and Instruments
4	Analytical Instrumentation	ISC606	Analytical Instrumentation (6 th Sem)
5	Engineering Mathematics-IV	ISC401	Applied Mathematics-IV
6	Application Software Practices-I	ISC406	Application Software Practice
		ISC404	Communication System

T.E Instrumentation Engineering (Equivalence)

SEMESTER- V

(R-2007)		As per Semester Based Credit and Grading System (REV- 2012)	
1	Signals & Systems	ISC501	Signals and Systems
2	Microprocessors and Applications	ISC502	Applications of Microcontroller -I
3		ISC503	Control System Design
4	Signal Conditioning Circuit Design	ISC504	Signal Conditioning Circuit Design
5	Control System Components	ISC505	Control system components
6	Environment Studies	ISC506	Business Communication and Ethics

SEMESTER- VI

(R-2007)		As per Semester Based Credit and Grading System (REV- 2012)	
1	Process Instrumentation Systems	ISC601	Process Instrumentation System
2	Power Electronics & Drives	ISC602	Power Electronics and Deices
3	Digital Signal Processing	ISC603	Digital Signal Processing
4	Embedded Systems for Instrumentation	ISC604	Applications of Microcontroller-II
5	Industrial Data Communications	ISC605	Industrial Data Communication
6		ISC606	Analytical Instrumentation
	Control System Design	ISC503	Control System Design (VthSem)

B.E Instrumentation Engineering (Equivalence)

SEMESTER- VII

(R-2007)		As per Semester Based Credit and Grading System(REV- 2012)	
1	Industrial Process Control	ISC701	Industrial Process Control
2	Biomedical Instrumentation	ISC702	Biomedical Instrumentation
3	Advanced Control Systems	ISC703	Advanced Control Systems
4	Process Automation	ISC704	Process Automation
5	Elective-I	ISE705X	Elective-I
6	Advanced Embedded Systems		Advanced Embedded System
	Fiber Optic Instrumentation		Wireless communication
	Process Modeling and Optimization		Process Modeling and Optimization
	Image Processing		Image Processing
	Expert Systems		Functional Safety

SEMESTER- VIII

(R-2007)		As per Semester Based Credit and Grading System(REV- 2012)	
1	Batch Process Automation	ISC801	Digital Control System
2	Instrumentation Project Documentation and Execution	ISC802	Instrumentation Project Documentation and Execution
3	Instrument and System Design	ISC803	Instrument and System Design
4	Elective II	ISE804X	Elective II
	Power Plant Instrumentation		Power Plant Instrumentation
	Digital Control System		
	Optimal & Robust Control Systems		Optimal Control theory
	Nuclear Instrumentation		Nuclear Instrumentation