

Department of Automation & Robotics

Change Summary Document - 2015-19

**Change summary between 2015-16 and 2016-17 admitted batches
(i.e. 2015 to 19 batch 2016 to 20 batch)**

Semester	Course Name	Total Hours	Revision Hrs	% Change	Year of Implementation
I	Nil	--	--	--	--
II	Nil	--	--	--	--
III	Nil	--	--	--	--
IV	Nil	--	--	--	--
V	Nil	--	--	--	--
VI	Nil	--	--	--	--
VII	Nil	--	--	--	--
VIII	Nil	--	--	--	--
		Total:			

Evidence enclosed:

Schemes of 2015-19 batch and 2016-20 batch with changes shown in different colour

Signature of HoS/HoD

Change Summary Document – 2016-20

**Change summary between 2015-16 and 2016-17 admitted batches
(i.e. 2015 to 19 batch 2016 to 20 batch)**

Semester	Course Name	Total Hours	Revision Hrs	% Change	Year of Implementation
I	Engineering Exploration	78	56	72	2016-17
II	Physics Lab (16EPHP102)	20	14	70	2016-17
	Social Innovation (16EHSP101)	64	60	94	2016-17
III	Analog and Digital Electronics (16EARC201)	50	14	28	2017-18
	Manufacturing Technology (16EARC203)	50	15	31	2017-18
	Programming Lab (16EARP203)	24	8	30	2017-18
IV	Microcontrollers (16EARC207)	50	13	25	2017-18
	Product Realization (16EARP208)	48	24	50	2017-18
	Manufacturing and Metrology Lab (16EARP205)	24	8	30	2017-18
V	OOP and Python Practice (16EARP305)	48	48	100	2018-19
	DBMS Practice (16EARP306)	48	48	100	2018-19
VI	Power Electronics, Motors and Drives (16EARE301)	40	20	50	2018-19
	Hydraulics and Pneumatics Lab (16EARP302)	24	12	50	2018-19
VII	Machine Learning & ROS (16EARE403)	40	40	100	2019-20
	Measurement System (16EARE401)	40	40	100	2019-20
VIII	Nil	--	--	--	--
		Total			
	Total No. of Subjects: 61	Changed Subjects: 15		24.5%	

Evidence enclosed:

Schemes of 2016-20 batch and 2017-21 batch with changes shown in different colour

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Change Summary Document – 2017-21

**Change summary between 2015-16 and 2016-17 admitted batches
(i.e. 2015 to 19 batch 2016 to 20 batch)**

Semester	Course Name	Total Hours	Revision Hrs	% Change	Year of Implementation
I	Nil	--	--	--	--
II	Nil	--	--	--	--
III	Algorithm Analysis and Program Design (17EARC203)	50	12	25	2018-19
IV	Microcontrollers (17EARC207)	50	12	25	2018-19
	Control Systems (17EARC209)	50	12	25	2018-19
	Microcontrollers lab (17EARP207)	24	8	30	2018-19
V	Measurement Systems (17EARC304)	40	40	100	2019-20
	Mechatronics and Measurement Lab (17EARP303)	24	12	50	2019-20
	Machine Learning & ROS (17EARC305)	40	40	100	2019-20
	Object Oriented Programming & Database Management Systems (17EARC301)	50	50	100	2019-20
	Mechatronics System Design (17EARC303)	40	20	50	2019-20
	Object Oriented Programming and Database Management Systems Lab (17EARP301)	24	24	100	2019-20
VI	AI for Autonomous Robots (17EARE301)	40	40	100	2019-20
	Digital System Design and FPGA Programming (17EARE304)	40	40	100	2019-20
	Hydraulics and Pneumatics (17EARC308)	40	13	30	2019-20
	Industrial Robotics Lab (17EARP306)	24	12	50	2019-20
VII	Project 1 (18EARW401)	144	144	100	2020-21
VIII	Nil	--	--	--	--
		Total			
	Total No. of Subjects: 64		Changed Subjects: 15	23.4%	

Evidence enclosed:

Schemes of 2017-21 batch and 2018-22 batch with changes shown in different colour

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Change Summary Document – 2018-22

**Change summary between 2015-16 and 2016-17 admitted batches
(i.e. 2015 to 19 batch 2016 to 20 batch)**

Semester	Course Name	Total Hours	Revision Hrs	% Change	Year of Implementation
I	Single Variable Calculus (18EMAB101)	60	40	67	2018-19
	Basic Electronics (18EECF101)	50	13	26	2018-19
II	Basic Electrical Engg. (18EEEF102)	50	15	30	2018-19
	Multivariable Calculus (18EMAB102)	60	32	53	2018-19
III	Analog and Digital Electronic Circuits (18EARC201)	50	12	25	2019-20
	Data Structures, Algorithm Design and Analysis (18EARC203)	50	12	25	2019-20
IV	Object Oriented Programming and Database Management Systems (18EARC209)	40	20	50	2019-20
	Object Oriented Programming and Database Management Systems Lab (18EARP209)	48	24	50	2019-20
	Microcontroller Programming and Interfacing (18EARC208)	50	12	25	2019-20
	Control Systems (18EARC207)	50	12	25	2019-20
	Microcontrollers Programming and Interfacing lab (18EARP208)	24	8	30	2019-20
V	Nil	--	--	--	--
VI	Nil	--	--	--	--
VII	Nil	--	--	--	--
VIII	Nil	--	--	--	--
		Total			
	Total No. of Subjects: 51	Changed Subjects: 11		21.5%	

Evidence enclosed:

Schemes of 2018-22 batch and 2019-23 batch with changes shown in different colour

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Change Summary Document – 2019-23

**Change summary between 2015-16 and 2016-17 admitted batches
(i.e. 2015 to 19 batch 2016 to 20 batch)**

Semester	Course Name	Total Hours	Revision Hrs	% Change	Year of Implementation
I	Nil	--	--	--	--
II	Nil	--	--	--	--
III	Nil	--	--	--	--
IV	Nil	--	--	--	--
V	Nil	--	--	--	--
VI	Nil	--	--	--	--
VII	Nil	--	--	--	--
VIII	Nil	--	--	--	--
		Total:			

Evidence enclosed:

Schemes of 2019-23 batch and 2020-24 batch with changes shown in different colour

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Total No. of Subjects for Last Five Years in the Program	Total No. of Changed Subjects	Percentage Change
64	41	64%

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