



G H RAISONI COLLEGE OF ENGINEERING AND MANAGEMENT WAGHOLI PUNE

(An Autonomous Institute under UGC Act 1956 & Affiliated to Savitribai Phule Pune University)

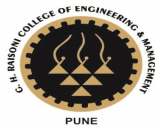
Domkhel Road , GAT No.: 1200 Wagholi, Pune – 412207

Course wise Teaching Plan for Session : Summer 2019

Course : MICROCONTROLLER AND APPLICATIONS

Faculty : kavita.joshi@raisoni.net - KAVITA VILASRAO JOSHI

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Syllabus Discussion, Discussion on course objective & course outcome and applications	05/12/2018	BECL301	B
1	2	Microprocessor and Microcontroller: comparison, advantages and applications of each,	05/12/2018	BECL301	B
1	3	Harvard and Von Neumann architecture, RISC and CISC comparison, study of 8 bit controllers	21/12/2018	BECL301	B
1	4	Block diagram and explanation of 8051	21/12/2018	BECL301	B
1	5	Overview of MCS-51 architecture	28/12/2018	BECL301	B
1	6	Architecture in continuation	28/12/2018	BECL301	B
1	7	memory organization	04/01/2019	BECL301	B
1	8	Pin Diagram	04/01/2019	BECL301	B
2	9	Timers and its modes, delay calculations,	18/01/2019	BECL301	B
2	10	Programming of Timer in mode 1 and 2	18/01/2019	BECL301	B
2	11	Serial communication, Study of RS232	01/02/2019	BECL301	B
2	12	baud rate calculations	01/02/2019	BECL301	B
3	13	Basics of ADC and Interfacing of ADC 0809 with 8051	08/02/2019	BECL301	B
3	14	Basics of DAC and Interfacing of DAC 0809 with 8051	08/02/2019	BECL301	B
3	15	Interrupt structure	15/02/2019	BECL301	B
3	16	Interrupt structure cont..	15/02/2019	BECL301	B
4	17	Features, comparison & selection of PIC series as per application	22/02/2019	BECL301	B
4	18	PIC18FXX architecture- MCU	22/02/2019	BECL301	B
4	19	Architecture cont..	23/02/2019	BECL301	B
4	20	programming model ,Program and Data memory organization, pin diagram	24/02/2019	BECL301	B
4	21	addressing modes ,	01/03/2019	BECL301	B
4	22	Interrupt structure of PIC	01/03/2019	BECL301	B



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5	23	PIC serial interrupt	02/03/2019	BECL301	B
5	24	PIC timer interrupt	02/03/2019	BECL301	B
5	25	PIC external interrupt	08/03/2019	BECL301	B
5	26	Introduction to CCP	08/03/2019	BECL301	B
6	27	Basics of Serial Communication Protocol: Study of I2C	09/03/2019	BECL301	B
6	28	Study of SPI	09/03/2019	BECL301	B
6	29	Basics of Serial Communication Protocol UART,	15/03/2019	BECL301	B