ST. JOSEPH'S EVENING COLLEGE (AUTONOMOUS)

DEPARTMENT OF COMPUTER APPLICATIONS TEACHING LESSON PLAN FOR DIGITAL ELECTRONICS BCA 1st Semester (June, 2018 to September, 2018)

Objective of the subject: To help students understand applications of electronics in the field of computer hardware.

Name of the Faculty: Mr. Amalraj X

Time/Hours required – 60 hrs

Sl. No.	Module and Topics	No. of Hours.	Teaching methods	Evaluation of Learning process
Unit I	Hardware units of computer	2	Lecture	Exercise problems and Assignment problems
	Operating Systems	2		
	Types of operating system	1		
Unit II	Number Systems Decimal Binary Octal Hexa decimal Gray Gray code 2421 code 8421 code Error detection & correction code	15	Lecture	Exercise problems and Assignment problems
Unit III	Hardware Flip flop Counter Register Half adder & Full adder BCD adder 	15	Lecture	Exercise problems and Assignment problems

Unit IV	Circuits • K Map • 2,3,4 variable • Truth table • Designing logical circuits using expressions	10	Lecture	Exercise problems and Assignment problems
Unit V	Transistors Diodes Rectifiers Triac Diac V I characteristics BJT, FET	15	Lecture	Exercise problems and Assignment problems