ACADEMIC YEAR PLAN - 2019 - 20

S.Y.J.C. – COMPUTER SCIENCE (Theory)

MONTH	PAPER I	PAPER II
JUN	HTML: Introduction to HTML. Its Advantage and drawbacks. Studyof <html>, <head>,<title>,
<BODY>,<P>,
,
,,<PRE>,
<M ARQUEE> Font styles:
,<I>,<U>,<BIG>,
<SM ALL>,
<SUB>,<SUP>,
IM AGES:<HREF>,<HR>,<IM G>,SRC,
ALT, HEIGHT, WIDTH, ALIGN
TABLES:
<TABLE>,<CAPTION>,<TR>,<TH>,< TD></td><td>Introduction to microprocessors and
organization of 8085:
Evolution of microprocessors, Features of
microprocessor. Block diagram of generic
microprocessors and study of various blocks
in it . Block diagram of 8085 up.
Study of various blocks and functions of
various pins on it .</td></tr></tbody></table></title></head></html>	

JUL	C++: Review of C++ Arrays, FUNCTIONS , pointers , reference, strings Principle of object oriented programming Class and object	Instruction set and programming of 8085: Addressing modes in 8085, programming model of 8085, study of Instruction set- data transfer , arithmetic, logic, branching.
AUG	Constructor and destructors Operator overloading & type conversion C++program s on the above concepts.	Stack and machine control group instructions. Assembly language programs based on above instructions.

	Introduction to data structure operations, algorithmic notation, control structures Arrays-	Introduction to Microcontroller : study of 8051 architecture and programming model, overview of other microcontroller's in the 8051 family, Application of microcontroller
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OCT	Operating system :	Networking Technology:
	Features of O.S. Services in OS, Overview of OS, WINDOWS 98, WINDOWSNT, LINUX Services of O.S. – I.M ., P.M . , M .M . Concept s related to I.M ., P.M .	Study of transmissions Media- cable Media – Types of cables - coaxial, twisted pair , fiber optic, their comparison. Introduction to wireless media. Advantages & Disadvantages of it. Network topologies – access methods, Topologies- BUS, RING, STAR, Ethernet, Token Ring.
NOV	Memory management . Partitioning -fixed & variable partitioning, paging, segmentation, virtual memory. Access and security aspect of OS Security threats, attacks on security, computer worms, computer virus, types of virus etc.	Protocols- internet protocols Introduction to connectivity devices- modem, hubs, repeaters, routers

DEC		Study of X- 86 family , Features of 8086 , Comparison between microprocessors.
JAN	Revision	Revision

S.Y.J.C. – COMPUTER SCIENCE (Practical)

MONTH	PAPER I	PAPER II
JUN	HTML: 1)Designing a simple webpage with text 2)Designing a simple webpage using text and graphics	

JUL	VB program – use of IFThenElse, ForNext VB Program – Use of DoLoop, CaseElse	 Addition of string of bytes Subtraction of two no. To find largest of bytes
AUG	e	6. To find largest and smallest of string of bytes7. Count odd no from
SEP	C++ program – using array and pointers	 9. Count the occurrence of FFH 10. Find no of 1's in data 11. To transfer string of bytes

OCT	C++ program- using CLASS implementation C++ program – based on constructors and destructors	 12. To find no of odds and evens 13. Transfer block in reverse order 14. Exchange content of 2 blocks 15. Separate nibble and add them 16. Separate nibble and multiply 17. Exchange nibble and
NOV	C++ program – based on operator overloading	 18. Multiplication of 2 no 19. Division of 2 no 20. Addition of block using DAD instruction 21. Addition of two 16 bit no. 22. Addition of 32 bit no.
DEC	C++ program – based on type conversion C++ program – based on single	23. Monitor programs 24. Display routine 25. Keyboard routine

JAN	REVISION	REVISION