University Syllabus
DSP Algorithms and Architecture

Subject Code	: 10EC751	IA Marks	: 25
No. of Lecture Hrs/Week	: 04	Exam Hours	: 03
Total no. of Lecture Hrs.	: 52	Exam Marks	: 100

PART - A

UNIT - 1

INTRODUCTION TO DIGITAL SIGNAL PROCESSING: Introduction, A Digital Signal-Processing System, The Sampling Process, Discrete Time Sequences, Discrete Fourier Transform (DFT) and Fast Fourier Transform (FFT), Linear Time-Invariant Systems, Digital Filters, Decimation and Interpolation.   **5 Hours**

UNIT - 2

ARCHITECTURES FOR PROGRAMMABLE DIGITAL SIGNAL-PROCESSORS: Introduction, Basic Architectural Features, DSP Computational Building Blocks, Bus Architecture and Memory, Data Addressing Capabilities, Address Generation Unit, Programmability and Program Execution, Features for External Interfacing.   **8 Hours**

UNIT - 3

PROGRAMMABLE DIGITAL SIGNAL PROCESSORS: Introduction, Commercial digital Signal-processing Devices, Data Addressing Modes of TMS320C54xx., Memory Space of TMS320C54xx Processors, Program Control.   **6 Hours**

UNIT - 4

Detail Study of TMS320C54X & 54xx Instructions and Programming, On-Chip peripherals, Interrupts of TMS320C54XX Processors, Pipeline Operation of TMS320C54xx Processor.   **6 Hours**

PART - B

UNIT - 5

IMPLEMENTATION OF BASIC DSP ALGORITHMS: Introduction, The Q-notation, FIR Filters, IIR Filters, Interpolation and Decimation Filters (one example in each case).   **6 Hours**

Ece Vii Dsp Algorithms Architecture 10ec751 Notes

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Ece Vii Dsp Algorithms Architecture 10ec751 Notes:

The Top Books of the Year Ece Vii Dsp Algorithms Architecture 10ec751 Notes The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have charmed audiences this year. The Must-Read : Colleen Hoovers "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Ece Vii Dsp Algorithms Architecture 10ec751 Notes : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Ece Vii Dsp Algorithms Architecture 10ec751 Notes : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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need for freedom, to express ourselves authentically, to be the unique person we just plain ARE. Why We Do What We Do: Understanding Self-Motivation People do things effectively -- whether it is to work, to learn, or to cooperate in any social relationship -- when they are "self-motivated". This means they ... Why We Do What We Do: Understanding Self-Motivation Explaining the reasons why a task is important and then allowing as much personal freedom as possible in carrying out the task will stimulate interest and ... Why We Do What We Do Summary Being intrinsically motivated is better for our mental health, because we feel more in control, and we understand why we're doing what we're doing. We don't ... Why We Do What We Do: Understanding Self-Motivation ... The bottom line: we do what we do because we have some basic need for freedom, to express ourselves authentically, to be the unique person we just plain ARE. Why We Do What We Do by Edward L. Deci, Richard Flaste Aug 1, 1996 — The best way to motivate people—at school, at work, or at home—is to support their sense of autonomy. Explaining the reasons why a task is ... Why We Do What We Do – Understanding Self-Motivation ... Sep 13, 2018 — Autonomy fuels growth and health because it allows people to experience themselves as themselves, as the initiatiors of their own actions. How ... Why We Do What We Do: Understanding Self-Motivation Self-Determination is a leading theory in human motivation that explains how people as active organisms, have evolved tendencies toward growing, mastering ... Why We Do What We Do: Understanding Self-Motivation Why We Do What We Do: Understanding Self-Motivation. Social Psych,Decision Science ... Why We Do What We Do: Understanding Self-Motivation. Edward Deci. kindle ...