E.G.S. PILLAY ENGINEERING COLLEGE

(Autonomous)

Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai Accredited by NAAC with 'A' Grade | Accredited by NBA NAGAPATTINAM – 611 002



B.E ELECTRICAL AND ELECTRONICS ENGINEERING

Full Time Curriculum and Syllabus

Second Year – Third Semester

Course		T		D	P C	Maximum Marks		
Code	Course Name	L	Т	P		CA	ES	Total
Theory Cour	se							
1901MA303	Engineering Mathematics III (Complex Variables, Vector Calculus and Transforms)	3	2	0	4	40	60	100
1902EE301	Analog Electronics	3	0	0	3	40	60	100
1902EE302	Digital Electronics	3	0	0	3	40	60	100
1902EE303	DC Machines and Transformers	3	2	0	4	40	60	100
1901GE301	Basic Civil and Mechanical Engineering	3	0	0	3	40	60	100
Laboratory Course								
1902EE351	Analog Electronics Laboratory	0	0	2	1	50	50	100
1902EE352	DC Machines and Transformers Laboratory	0	0	2	1	50	50	100
1904GE351	Life Skills: Soft Skill	0	0	2	1	100	0	100
	Audit Co	urse				•		
1901MCX02	Constitution of India	2	0	0	0	100	0	100
	Total	17	04	06	20	500	400	900

L – Lecture | T – Tutorial | P – Practical | CA – Continuous Assessment | ES – End Semester

L **Engineering Mathematics III** Т Р 1901MA303 (Complex Variables, Vector Calculus and Transforms) 3 2 0

COURSE OBJECTIVE

This course focuses on acquiring sound knowledge of techniques involved in conformal mappings, properties of analytic functions and construction of analytic functions, acquaint with the concepts of vector calculus, needed for problems in all engineering disciplines, develop an understanding of the standard techniques of complex variable theory so as to enable the student to apply them with confidence, in application areas such as heat conduction, elasticity, fluid dynamics and flow the of electric current, also make the student appreciate the purpose of using transforms to create a new domain in which it is easier to handle the problem that is being investigated.

COURSE OUTCOMES

- After successful completion of the course, students will be able to
- Construct an analytic functions, harmonic functions and conformal mappings **CO1**
- Determine the area and volume of a curve using double and triple integration. **CO2**
- Estimate contour integrals, Cauchy integral formula, Cauchy integral formula and residues. **CO3**
- **CO4** Determine the Fourier transforms, Inverse Fourier Transforms
- Determine the Z transforms Inverse Z transforms solving differential equations by using Z CO5 transforms

MODULE I ANALYTIC FUNCTIONS

Functions of a complex variable - Analytic functions: Necessary conditions - Cauchy-Riemann equations and sufficient conditions (excluding proofs) – Harmonic and orthogonal properties of analytic function – Harmonic conjugate – Construction of analytic functions – Conformal mapping: w = z+k, kz, 1/z, and bilinear transformation.

MODULE II VECTOR CALCULUS

Gradient, Divergence and Curl – Directional derivative – Irrotational and solenoidal vector fields – Vector integration: Greens theorem in a plane, Gauss divergence theorem and Stokes" theorem (excluding proofs) -Applications of the above theorems to find surface area of a closed region and volume of cube and parallel piped.

MODULE III COMPLEX INTEGRATION

Complex integration - Statement and applications of Cauchy's integral theorem and Cauchy's integral formula - Taylor's and Laurent's series expansions - Singular points - Residues - Cauchy's residue theorem -Evaluation of real definite integrals as contour integrals around unit circle and semi-circle (excluding poles on the real axis).

MODULE IV FOURIER TRANSFORMS

Statement of Fourier integral theorem – Fourier transform pair – Fourier sine and cosine transforms – Properties - Transforms of simple functions - Convolution theorem - Perceval's identity

MODULE V TRANSFORMS

Z- transforms - Elementary properties - Inverse Z - transform (using partial fraction and residues) -Convolution theorem - Formation of difference equations - Solution of difference equations using Z transform

TOTAL: 60 HOURS

REFERENCES:

- 1. Bali N. P and Manish Goyal, "A Text book of Engineering Mathematics", Eighth Edition, Laxmi Publications Pvt Ltd.(2011).
- 2. Grewal. B.S, "Higher Engineering Mathematics", 41st Edition, Khanna Pub, Delhi, 2011.
- 3. Dass, H.K., and Er. Rajnish Verma," Higher Engineering Mathematics", S. Chand Private Ltd., (2011)
- 4. Glyn James, "Advanced Modern Engineering Mathematics", 3rd Edition, Pearson Education, (2012).
- 5. Peter V. O'Neil," Advanced Engineering Mathematics", 7th Edition, Cengage learning, (2012).
- 6. Ramana B.V, "Higher Engineering Mathematics", Tata McGraw Hill Publishing Company, New Delhi, (2008).

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1	1	ny 10 th Edition 2017	7

- 5. Prof.A.N.Chandorkar, IIT Bombay online lecture series on Analog Electronics
- 6. Albert Malvino and David Bates, Electronic Principles, 8th Edition,

7. Prof. S.Karmalkar. IIT Madras, online lecture series Solid State Devices. on http://nptel.ac.in/courses/117106091/

8. https://onlinecourses.nptel.ac.in/noc18_ee32/preview.

Explain the structure, V-I Characteristics and applications of diodes. **CO1**

circuits

Describe the V-I characteristics of BJT in CB,CE & CC configurations also able to design and **CO2** analyze amplifier circuits containing BJT as a device

To understand the structure and operation of electronic devices

ANALOG ELECTRONICS

1. To explain the operation and characteristics of electronic

2. To analyze the BJT and FET based amplifier circuits

- Discuss the structure, operation and V-I characteristics of FET also able to design and analyze **CO3** amplifier circuits containing FET as a device
- Explain the need and operation of differential amplifiers, single tuned amplifiers and power **CO4** amplifiers able to analyze differential and single tuned amplifiers.
- Analyze negative feedback amplifiers to determine necessary expressions & RC, LC and **CO5** Crystal Oscillators to find out frequency of oscillations

MODULE I DIODES

1902EE301

COURSE OBJECTIVE

COURSE OUTCOME

PN Junction Diode: Structure, Operation and V-I characteristics; Capacitance effect - Diffusion capacitance and transition capacitance; Diode model; Applications-Clippers and clampers.

Zener Diode: V-I Characteristics, Breakdown mechanism; Application – Voltage regulator.

Special Function Diodes: Structure and operation of LED, Laser diode, Tunnel diode, Schottky diode and Photodiode.

MODULE II BIPOLAR JUNCTION TRANSISTOR AND CIRCUITS 9 Hours BJT: Structure, operation, biasing circuits, V-I characteristics in common base, common emitter and common collector configurations; DC and AC load line analysis- Determination of Q point; Secondary breakdown; Small signal model; Analysis and comparison of CB, CE and CC amplifiers; Low and high frequency response of an amplifier; Darlington amplifier.

MODULE III FIELD EFFECT TRANSISTOR CIRCUITS

JFET: Structure, operation, n channel and p channel, V-I characteristics and biasing circuits of JFET. MOSFET: Structure and operation of D-MOSFET & E-MOSFET, V-I characteristics, Biasing circuits, small signal model; Analysis of common source and common drain amplifiers; high frequency equivalent circuit; Comparison of devices.

MODULE IV DIFFERENTIAL AND POWER AMPLIFIERS

Differential Amplifier: Common mode and difference mode analysis of BJT based differential amplifier. Single Tuned Amplifiers: Gain and frequency response of single tuned BJT and FET amplifiers; Neutralization methods. Power Amplifiers: Class A, class B, class C and class AB Amplifiers (Qualitative analysis).

MODULE V FEEDBACK AMPLIFIERS AND OSCILLATORS

Negative Feedback: Voltage series, current series, current shunt and voltage shunt amplifiers – Input impedance, output impedance, current gain, voltage gain, overall current gain and overall voltage gain.

Positive Feedback: Barkhausen criterion; RC oscillators - RC phase shift and Wien bridge oscillators; LC oscillators – Hartley, Colpitts and Clapp; Crystal oscillators – Miller and Pierce crystal oscillators. **TOTAL: 45 HOURS**

REFERENCES:

- 1. Milman, Halkias and Satvabrata Jit, Electronic Devices and Circuits, McGraw Hill Education (India) Private Ltd., 4th Edition, 2015.
- 2. Robert L. Boylestad and Louis Nashelsky, Electronic Devices and Circuit Theory, PHI Ltd., 11th Edition, 2015.
- 3. David A. Bell, Electronic Devices and Circuits^{II}, Oxford University Press, 5th Edition, 2008.
- 4. Thomas L. Floyd, Electronic Devices, An Imprint of Mc Millan publishing company, 10th Edition, 2017.
- http://nptel.ac.in/courses/117101106/

9 Hours

9 Hours

1902EE302	DIGITAL ELECTRONICS	L 3	Т 0	Р 0	C 3	
PREREQUISITE :						
	Applied Physics for Engineers					
	Electric Circuit Analysis					
COURSE OBJECTI	IVE					
1.	To study the fundamentals of digital systems, programmable logic dev	vices a	nd log	ic fan	nilies.	
2.	To design and analyze digital systems.					
3.	To apply the digital simulation techniques for application oriented dig	gital cir	rcuits.			
COURSE OUTCOMES:						
C01	Solve digital system problems using number systems, binary codes, lo algebra and Karnaugh Map	ogic ga	tes, B	oolear	1	
CO2	Construct combinational logic circuits using logic gates and multiplex	ters				
CO3	Build synchronous sequential logic circuits using excitation table, stab diagrams	ole tabl	le and	state		
CO4	Construct asynchronous sequential logic circuits using flow table, tran assignment and state reduction techniques	isition	table,	state		

programmable logic devices and logic families **MODULE I** NUMBER SYSTEM AND BOOLEAN ALGEBRA

Review of number system, Binary codes –BCD, Gray code, Excess 3 code; Error detection and correction codes – Parity, Hamming codes.

Implement Boolean functions and combinational logic circuits using memories,

Boolean postulates- laws, rules & theorems; Standard forms of Boolean expressions, conversions; Simplification using K-maps-3, 4 and 5 variables.

MODULE II COMBINATIONAL LOGIC CIRCUITS

Design of adders, subtractors, comparators, code converters, encoders, decoders, multiplexers and de-multiplexers. Function realization using multiplexers; Booth multiplier and Array Multiplier; Simulation of simple logic circuits.

MODULE III SYNCHRONOUS SEQUENTIAL LOGIC CIRCUITS

Latches-operation of SR and gated SR latch; Flip-flops – Method of edge triggering, SR, JK, Master Slave JK, D, and T flip flops; Important signals of FF. Design of Synchronous sequential circuits- Model Selection, State transition diagram, State synthesis table, Design equations, State reduction technique and Implementation; Binary counters-4 bit UP, DOWN and UP/DOWN counters; BCD counters, Ring counters, shift registers, Johnson counters.

MODULE IV ASYNCHRONOUS SEQUENTIAL LOGIC CIRCUITS

Synchronous Vs Asynchronous sequential circuits; Design of asynchronous sequential circuits-Design steps, State transition diagram, State table, FF transition table, K-map based Primitive table, State reduction techniques, state assignment and design equations; Races and hazards.

MODULE V MEMORY DEVICES, PROGRAMMABLE LOGIC DEVICES AND 9 Hours LOGIC FAMILIES

Memories: ROM, PROM, EPROM; Programmable Logic Devices - PLA, PAL, PLD. Logic families: TTL, ECL, CMOS; Case study on four-bit accumulator.

REFERENCES:

CO5

1. M. Morris Mano, Digital Logic and Computer Design, Prentice Hall of India, 4th edition, 2013.

- 2. A. Anandkumar, "Fundamentals of digital circuits", 3rd Edition, PHI Learnings Pvt. Ltd, 2014.
- 3. Malvino and Leach, Digital Principles and Applications, Tata McGraw Hill, New Delhi, 7th edition, 2011.
- 4. Floyd, Digital Fundamentals, Pearson Education, 10th edition, 2011.
- 5. John F. Wakerly, Digital Design Principles and Practice, Pearson Education, 4th edition, 2008.
- 6. http://nptel.ac.in/courses/117106086/

Page | 4

9 Hours

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TOTAL: 45 HOURS

1902EE303	DC MACHINES AND TRANSFORMERS	L	Т	Р	С
PREREQUISITE :		3	2	0	4

1. Electric Circuit Analysis

Basic Electrical Engineering

2. B COURSE OBJECTIVES:

- 1. Understand the basic concepts behind the rotating and stationary machines.
- 2. Evaluate the performance characteristics of DC Generator and DC Motor
- 3. Explain the different types of Transformers, their working principle and performance

COURSE OUTCOMES:

- On the successful completion of the course, students will be able to
- **CO1** Understand the operation characteristics of DC machines
- **CO2** Understand the operation characteristics of Transformer
- **CO3** Analyze the performance parameters of DC machine and Transformer
- **CO4** Elucidate the applications of transformer
- **CO5** Apply the different testing methods to assess the performance of Electrical machines

MODULE I DC GENERATOR

Rekindling of magnetic circuit fundamentals; DC generator- Construction, Materials for different parts, development of lap and wave winding, EMF equation, excitation types, Commutation, Armature reaction, Compensating winding, and characteristics;Simulation study on dc separately excited dc generator.

MODULE II DC MOTOR

Principle of operation, Classification, Torque equation, Characteristics, Starters; Speed Control and Braking methods; Simulation of dc motors.

MODULE IIITESTING AND APPLICATIONS OF DC MACHINES12 HoursLosses and Efficiency calculations; Testing- Swinburne's test, Brake test, Hopkinson test; Industrial applications of
DC generators& DC motors; Energy saving options.12 Hours

MODULE IV TRANSFORMER

Single phase transformer: Construction, Principle of operation, Classification, Ideal transformer, Equivalent circuit, Phasor diagrams, Voltage regulation, Characteristic curves, Conditions for maximum regulation and power factor; Parallel operation of transformers. Three phase transformer: Parts of transformer, Cooling, Connections, Tertiary winding; Inrush current; Per unit representation.

MODULE V PERFORMANCE EVALUATION AND APPLICATIONS OF TRANSFORMER

Performance evaluation of transformer: Open circuit and Short circuit test, Polarity test, Load test, Sumpner's test; Design over view of transformer.Applications of transformer: Autotransformer, Power transformer, Distribution transformer-Calculation of All day efficiency, Potential transformer, Current transformer and Isolation transformers.

REFERENCES:

- 1. D. P. Kothari and I. J. Nagrath, Electric Machines, Tata McGraw Hill Publishing Company Ltd, 2010.
- 2. Edward Hughes, Electrical and Electronic Technology, 12th edition, Pearson, 2016.
- 3. P. S. Bimbhra, Electrical Machinery, Khanna Publishers, 7th edition, 2011.
- 4. B. L. Theraja and A. K. Theraja, —Text Book of Electrical Technology: AC & DC Machines (Volume- 2), S. Chand & Company Ltd., New Delhi, 2008.
- 5. M.N. Bandyopadhyay, Electrical Machines Theory and practice, PHI Learning Pvt. Ltd, New Delhi 2007.
- 6. Electrical Machines-I Nptel lecture video by Dr. D.Kastha, IIT Kharagpur.

12 Hours

12 Hours

TOTAL: 60 HOURS

12 Hours

1901GE301 BASIC CIVIL AND MECHANICAL ENGINEERING

COURSE OBJECTIVE

- 1. To get more knowledge in building structure with proper selection of construction material
- 2. To understand the power plants, IC engine and refrigeration system

COURSE OUTCOME

On the successful completion of the course, students will be able to

- CO1 Explain the usage of construction material and proper selection of it.
- CO2 Design building structure
- CO3 Explain about various power plants and its operation
- CO4 Describe the operation of internal combustion engine
- CO5 Discuss about Refrigeration And Air Conditioning System

CIVIL ENGINEERING

MODULE I SURVEYING AND CIVIL ENGINEERING MATERIALS

Surveying: Objects – types – classification – principles – measurements of distances – angles – leveling – determination of areas – illustrative examples.

Civil Engineering Materials: Bricks – stones – sand – cement – concrete – steel sections.

MODULE II BUILDING COMPONENTS AND STRUCTURES

Foundations: Types, Bearing capacity – Requirement of good foundations. **Superstructure:** Brick masonry – stone masonry – beams – columns – lintels – roofing – flooring – plastering – Mechanics – Internal and external forces – stress – strain – elasticity – Types of Bridges and Dams – Basics of Interior Design and Landscaping.

MECHANICAL ENGINEERING

MODULE III POWER PLANT ENGINEERING

Introduction, Classification of Power Plants – Working principle of steam, Gas, Diesel, Hydro-electric and Nuclear Power plants – Merits and Demerits – Pumps and turbines – working principle of Reciprocating pumps (single acting and double acting) – Centrifugal Pump.

MODULE IV IC ENGINES

Internal combustion engines as automobile power plant – Working principle of Petrol and Diesel Engines – Four stroke and two stroke cycles – Comparison of four stroke and two stroke engines – Boiler as a power plant.

MODULE V REFRIGERATION AND AIR CONDITIONING SYSTEM

Terminology of Refrigeration and Air Conditioning– Principle of vapour compression and absorption system – Layout of typical domestic refrigerator – Window and Split type room Air conditioner. **TOTAL:** 45 HOURS

TOTAL: REFERENCES:

1. Ramamrutham S., "Basic Civil Engineering", Dhanpat Rai Publishing Co. (P) Ltd. 1999.

- 2. Seetharaman S., "Basic Civil Engineering", Anuradha Agencies, 2005.
- 3. Venugopal K. and Prahu Raja V., "Basic Mechanical Engineering", Anuradha Publishers, Kumbakonam, 2000.

4. Shantha Kumar S R J., "Basic Mechanical Engineering", Hi-tech Publications, Mayiladuthurai, 2000.

5. Shanmugam G and Palanichamy M S, "Basic Civil and Mechanical Engineering", Tata McGraw Hill Publishing Co., New Delhi, 1996.

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1902EE351 ANALOG ELECTRONICS LABORATORY

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PREREQUISITE:

- 1. Semiconductor Physics and Devices
- 2. Electric Circuit Analysis

COURSE OBJECTIVES:

- 1. To analyze V-I Characteristics of different switches
- 2. To Design a transistor based amplifier circuits
- 3. To understand the operations of Digital Storage Oscilloscope.

COURSE OUTCOMES:

CO1

- On the successful completion of the course, students will be able to
- Illustrate the turn on and turn off process of different switches
- **CO2** Design a circuit, which is used to convert ac signal to dc signal
- **CO3** Determine voltage gain from CE and CB configurations
- CO4 Determine the frequency and gain value of various types of oscillators and amplifiers
- **CO5** Study and understand the operation of digital storage oscilloscope

LIST OF EXPERIMENTS

- 1. Characteristics of PN junction diode and Zener diode.
- 2. Design of Clipper and Clamper circuits.
- 3. Characteristics of CE and CB configurations.
- 4. Characteristics of JFET / MOSFET.
- 5. Design and verify the frequency response of single stage transistor amplifier.
- 6. Design and verify the frequency response of RC phase shift oscillator.
- 7. Frequency response of two stage RC coupled amplifier.
- 8. Verify the V-I characteristics of photo diode and phototransistor.
- 9. Design and test a voltage regulator circuit using zener diode.
- 10. Design a transistor based battery charging control circuit.
- 11. Design of Hartley Oscillator
- 12. Design of Colpitts Oscillator

TOTAL: 30 HOURS

ADDITIONAL EXPERIMENTS:

- 1. Design of transistor based differential amplifier.
- 2. Real time applications using logic gates/Flip-flops.

REFERENCES:

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- 1. Mr.K. Krishnaram, -Electronic Devices and Circuits Lab Manual 2018.
- 2. Milman, Halkias and Satyabrata Jit, —Electronic Devices and Circuits 4th Edition, Mc Graw Hill Education (India) Private Ltd, 2015.
- 3. Integrated circuits: Solution manual: Analog digital circuits and systems manual by Jacob Millman.

1902EE352 DC MACHINES AND TRANSFORMERS LABORATORY

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PREREQUISITE :

- **1.** Study of Electrical circuits
- 2. Basics of rotating and static machinery concepts

COURSE OBJECTIVES:

- 1. Complete the circuit to test a given electrical machine.
- 2. Analyze the performance characteristics of various electrical machines
- **3.** Evaluate the performance of transformer

COURSE OUTCOMES:

On the successful completion of the course, students will be able to

- **CO1** Draw the circuits for a given electrical machine
- **CO2** Obtain the performance characteristics of DC Generators.
- CO3 Analyze the operating behavior of DC motors under various loading condition
- **CO4** Obtain the equivalent circuit parameters of transformer
- CO5 Know the different starting and control measures involved in the operation of electrical machines

LIST OF EXPERIMENTS:

- 1. Swinburne's test and load test on DC shunt motor.
- 2. Parallel operation of single-phase transformers.
- 3. Load test on DC series motor.
- 4. Load test on DC compound motor.
- 5. Speed control of DC shunt motor (Field control & armature control method).
- 6. Open circuit and load characteristics of DC shunt generator.
- 7. Open circuit and short circuit test on single-phase transformer.
- 8. Open circuit and short circuit test on three-phase transformer.
- 9. Load test on single-phase transformer.
- 10. Load test on three-phase transformer.

ADDITIONAL EXPERIMENTS :

1. Sumpner's test on single-phase transformer.

REFERENCES:

1. B.A.NaveenAntony-ElectricalMachinerylaboratory-1Manual, 2018.

2. D.P.Kothari & B.S.Umre, Laboratory Manual for Electrical Machines, I.K. International publishing house Pvt. Ltd., 2013.

3. B.L.Theraja & K.Theraja, Text BookofElectricalTechnology: AC&DCMachines–Volume-2, S.Chand & Company Ltd., NewDelhi, 2008.

TOTAL: 30 HOURS

1904GE351 LIFE SKILLS: SOFT SKILLS L T P C 0 0 2 1

COURSE OBJECTIVES:

- 1 To develop the students basic soft skills and enable them to get a job.
- 2 To develop the students 'interpersonal skills and to enable them to respond effectively.
- 3 To develop the students selling skills and to enable them to apply in their interview process.
- 4 To develop the students 'Corporate Etiquettes and enable them to respond effectively.
- 5 To develop the students 'learning by practice of giving different situations.

COURSE OUTCOMES:

- On the successful completion of the course, students will be able to
- CO1 Communicate effectively in their business environment.
- CO2 Improve their interpersonal skills, which are mandatory in a corporate world.
- CO3 Brand themselves to acquire a job.
- CO4 Involve in corporate etiquettes.
- **CO5** Survive in the different situations.

MODULE I INTRODUCTION TO SOFT SKILLS

Soft Skills an Overview - Basics of Communication – Body Language – Positive attitude –Improving Perception and forming values – Communicating with others.

MODULE II TEAM VS TRUST

Interpersonal skills – Understanding others – Art of Listening - Group Dynamics –Essential of an effective team - Individual and group presentations - Group interactions – Improved work Relationship .

MODULE III SELLING ONESELF

 $How \ to \ brand \ oneself - social \ media - job \ hunting - Resume \ writing - Group \ Discussion - Mock \ G.D \ - . Interview \ skills - Mock \ Interview$

MODULE IV CORPORATE ETIQUETTE

What is Etiquette - Key Factors - Greetings - Meeting etiquette - Telephone etiquette - email etiquette - Dining etiquette - Dressing etiquette .

MODULE V LEARNING BY PRACTICE

My family-Myself-Meeting people-Making Contacts.-A city-Getting about town-Our flat-Home life-Travelling - Going abroad- Going through Customs-At a hotel-Shopping- Eating out- Making a phone call- A modern office-Discussing business.

REFERENCES:

1 Dr.K.Alex, "soft skills "Third Edition, S. Chand & Publishing Pvt Limited, 2009

- 2. Aruna koneru, 'Professional Communication' Second Edition, Tata McGraw-Hill Education, 2008
- 3. D.K.Sarma,'You & Your Career 'First Edition Wheeler Publishing & Co Ltd, 1999

4. Shiv Khera 'You Can Win' Third Edition Mac Millan Publisher India Pvt Limited, 2005

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TOTAL: 30 HOURS

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1901MCX02 CONSTITUTION OF INDIA		L	I	P	C	
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COURSE OBJ	ECTIVES:					
1.	To understand about Indian constitution and its structure					
2.	To obtain the knowledge in constitution function and Indian society					
COURSE OUT	COMES:					
	On the successful completion of the course, students will be able to					
CO1	Understand the background and foundations of Indian Constitution					
CO2	Describe the structure and function of central government					
CO3	Discuss the structure and function of state government					
CO4	Explain the constitution functions and parliamentary system in India					
CO5	Understand about the Indian society					
MODULE I	INTRODUCTION			6 Ho	urs	
Historical Bac	kground -Constituent Assembly of India -Philosophical foundations of the	Indian	Const	itution	-	
	Preamble - Fundamental Rights -Directive Principles of State Policy -Fundamental Duties -Citizenship -					
	Remedies for citizens.			< T		
MODULE II	STRUCTURE AND FUNCTION OF CENTRAL GOVERNMENT			6 Ho	urs	
	Union Government - Structures of the Union Government and Functions - President- Vice President- Prime					
	net - Parliament - Supreme Court of India - Judiciary view					
MODULE III	STRUCTURE AND FUNCTION OF STATE GOVERNMENT			6 Ho	urs	
	ent-Structure and Functions - Governor - Chief minister-Cabinet-State Leg	gislatur	e- Jud	icial		
System in Stat	es -High Courts and other sub ordinate Courts.					
MODULE IV	CONSTITUTION FUNCTIONS			6 Ho	urs	
	System -Center -State Relations- Constitutional Amendments - Constitution	onal Fu	nction	aries –	-	

CONSTITUTION OF INDIA

Assessment of working of Parliamentary System in India

INDIAN SOCIETY MODULE V

Society: Nature, Meaning and definition; India Political Structure; Caste, Religion, Languages in India; Constitutional Remedies for citizens-Parties and Pressure Groups; Right of Women, Children and Scheduled Castes and Scheduled Tribes and other Weaker Sections

REFERENCES:

- 1. Durga Das Baslli "Introduction to the Constitution of India" Prentice Hall of India, New Delhi.
- 2. R.C. Agarwal, (1997) "Indian Political System", S. Chand and Company, New Delhi.
- 3. Maciver and Page, "Society: An Introduction Analysis " Mac Milan India Ltd., New Delhi
- 4. K.L. Sharma, (1997) 'Social Stratification in India: Issues and Themes', Jawaharlal Nehru University, New Delhi.

6 Hours

TOTAL: 30 HOURS