SEMESTER -II

BCA-I-Sem-II(NEP 2.0)								
MATHEMATICS FOUNDATIONS TO COMPUTER SCIENCE – II CC103								
Course Objective	CO2: This country understanding optimization. CO3: This country	rse introduction dvanced course helps to the	ne students ces mathem omputationa he students	to understannatical technial methods, is	d correct lines of argiques that are foundated including numerical and various problem and practical challengers.	ntions for methods n-solving	and	
Total Ho	ours of Teaching	Lecture	Tutorial	Practical	Total Per Week	Credi	t Points: 4	
	: 60	4	0	4	8			
Tota	al Marks :100		Externa	l Exam The	eory : 80	Inte	ernal: 20	
Syllabus Co	ontents:							
I Init• I	Logic and Methods of Proofs:							
Unit: II	Algebraic Structures. Semi-group, Monoid, (group, Cyclic	c group			15 Hours	
	Concept and importance of errors in numerical methods. Solution of algebraic and transcendental equations: Bisection method and Newton-Raphsonmethods. Numerical Interpolation: Newton's Forward and Newton's Backward interpolation formula and Lagrange's formula. Numerical Integration: Trapezoidal rule and Simpson's 1/3 rule Only formula and problem solving for all the topics mentioned above							
Unit-IV	Optimization Technic		<u>g</u> 101 w v	in topics inc			15 Hours	
	Linear programming: Introduction, LP formulation, Graphical method for solving LPs with two variables, , Simplex method, Duality. Transportation problem: Definition, Linear form, North-west corner method, Least cost method, Vogel's approximation method for finding feasible solution, MODI method for finding optimum solution							
		ductory M	ethods of N	Numerical Ar	nalysis, Fifth Edition		022.	
	3. Taha Hamdy A., Pearson Prentice	-		An Introduc	tion, Eighth Edition,			
	4. S.B. Singh, Discr Recommended T		res, Khann	a Book Publ	ishing, 2023 (AICTE	Ε		

Reference Books:	 2. 3. 	Rosen Kenneth H. and Krithivasan Kamala, Discrete Mathematics and its Applications, McGraw Hill, India, 2019. Chakravorty J. G. and Ghosh P. R., Linear Programming and Game Theory, MoulikLibrary, 2017. Sharma J. K., Operations Research: Theory and Applications, Fourth Edition, Macmillan Publishers, 2007.	
Web	1.	https://nptel.ac.in/courses/111107127	
Resources	2.	https://www.math.iitb.ac.in/~siva/si50716/SI507lecturenotes.pdf	

BCA-I-Sem-II(NEP 2.0)									
	DATA STRUCTURES								
			CC1	04					
				-	ata Structures and the	ir applica	ations.		
Course	CO2: Develop								
Outcome	es CO3: Implemen	nt Data Str	uctures usir	ng C prograi	mming language				
Duono aviaito	1. Programming Fundamentals: Understanding the basic syntax and semantics of C								
Prerequisite	programming la			i de l'attaine	, the suste syman and	5011141111			
	2. Problem-Sol	lving Skill	s: Ability to	o break dow	n a problem into smal	ller steps	and devise a		
	step-by-step sol	ution and	familiarity	with simple	algorithms.				
Total Ho	ours of Teaching	Lecture	Tutorial	Practical	Total Per Week	Credit	Points: 6		
	: 60	4	0	4	8	-			
Tota	al Marks :100	External Exam Theory: 80 In					Internal : 20		
Pra	ctical : 50	External Exam. Practical:50							
Syllabus Co	ontents:								
)verview:	Definition,	Classificat	ion and Operations of	of Data			
	Structures.		,		1				
	Algorithms: Complex	xity, Time-	-Space Trac	le-off.					
	1			•	resentation of Linear	•			
				rays: Trave	ersing, Inserting, De	eleting,	15 Hours		
	Searching, Sorting ar		-						
	_		-	-	arison of Methods. S	_			
TT 14 T					Two-Dimensional				
Unit: I	-			rays in Me	emory, Matrices and	Sparse			
	Matrices, Multi-Dime			with Amove	Panragantation Tr	mag of			
				•	s, Representation, Ty ching in Singly Links	-			
		-	-	-	plications of Linked				
Unit: II	Addition of Polynom		Zaiai Lilike	л шы. пр	photons of Elliked	11313.			
			shing, Has	h Tables.	Types of Hash Fur	nctions.	15 Hours		
	Collision, Collision F					, , ,			

Resources	2. Khan Academy - Algorithms Course	
Web	1. GeeksforGeeks - Data Structures Tutorial	
Doons.	Structures in C", Second Edition, Universities Press, 2007.	
Reference Books:	 Reema Thareja, "Data Structures Using C", Second Edition, Oxford University P 2014. Ellis Horowitz, Sartaj Sahni, and Susan Anderson-Freed, "Fundamentals of Data 	
	2. Seymour Lipschutz, "Data Structures with C", Schaum's Outlines, Tata McGraw 3. Yashavant Kanetkar, "Data Structures Through C", 4th Edition, BPB Publication of the Company of the Comp	tions,2022.
Text Books:	1. R.B. Patel, "Expert Data Structures with C", Khanna Book Publishing Company, Recommended Textbook) 2. Saymour Lingabutz, "Data Structures with C", Sahaum's Outlines, Tata McGray,	`
Unit-IV	Balanced Trees: AVL Trees, Insertion and Deletion in AVL Tree.	15 Hours
I Init IV	Graphs: Definition, Terminology, Representation, Traversal. Trees: Definition, Terminology, Binary Trees, Traversal of Binary Tree, Binary Search Tree, Inserting, Deleting and Searching in Binary Search Tree, Height	
	Applications of Queues.	
Unit: III	Queues: Definition, Representation of Queues using Array and Linked List, Types of Queue: Simple Queue, Circular Queue, Double-Ended queue, Priority Queue, Operations on Simple Queues and Circular Queues using Array and Linked List,	15 Hours
	Recursion: Definition, Recursive Notation, Runtime Stack, Applications of Recursion: Factorial of Number, GCD, Fibonacci Series and Towers of Hanoi.	
	Postfix Expression, Evaluation of Postfix Expression.	
	Operations on Stacks using Arrays and Linked List, Application of Stacks: Arithmetic Expressions, Polish Notation, Conversion of Infix Expression to	
	Stacks: Definition, Representation of Stacks using Arrays and Linked List,	

Practical

Mandatory Lab Programs:

- 1. Write a program for insertion and deletion operations in an array.
- 2. Write a program to search for an element in an array using Linear Search and Binary Search.
- 3. Write a program to sort an array using Bubble Sort, Selection Sort and Insertion Sort.
- 4. Write a program to merge two arrays.
- 5. Write a program to add and subtract two matrices.
- 6. Write a program to multiply two matrices.
- 7. Write a program to insert an element into a Singly Linked List:
- (a) At the beginning
- (b) At the end
- (c) At a specified position
- 8. Write a program to delete an element from a Singly Linked List:
- (a) At the beginning
- (b) At the end
- (c) A specified element
- 9. Write a program to perform the following operations in a Doubly Linked List:
- (a) Create
- (b) Search for an element
- 10. Write a program to perform the following operations in a Circular Linked List:
- (a) Create
- (b) Delete an element from the end
- 11. Write a program to implement stack operations using an array.
- 12. Write a program to implement stack operations using a linked list.

- 13. Write a program to add two polynomials using a linked lists.
- 14. Write a program to evaluate a postfix expression using a stack.
- 15. Write a program to perform the following using recursion:
- (a) Find the factorial of a number
- (b) Find the GCD of two numbers
- (c) Solve Towers of Hanoi problem
- 16. Write a program to implement simple queue operations using an array.
- 17. Write a program to implement circular queue operations using an array.
- 18. Write a program to implement circular queue operations using a linked list.
- 19. Write a program to perform the following operations on a binary search tree.
- (a) Preorder Traversal
- (b) Inorder Traversal
- (c) Postorder Traversal
- 20. Write a program to perform insertion operation in a binary search tree.

Operating Systems LAB

Operating System Practical

Course Outcomes (COs):

CO1: To implement scheduling of algorithms.

CO2: Understanding the concept of critical section problems.CO3: Concepts of file allocation of frames.

CO4: Concept of Page replacement algorithms.

List of experiments

- 1. Write C program to simulate the FCFS CPU Scheduling algorithm.
- 2. Write C program to simulate the SJF CPU Scheduling algorithm.
- 3. Write C program to simulate the Round Robin CPU Scheduling algorithm.
- 4. Write a C program to simulate Bankers Algorithm for Deadlock Avoidance.
- 5. Write a C program to implement the Producer Consumer problem using semaphores.
- 6. Write a C program to illustrate the IPC mechanism using Pipes.
- 7. Write a C program to illustrate the IPC mechanism using FIFOs.
- 8. Write a C program to simulate Paging memory management technique.
- 9. Write a C program to simulate Segmentation memory management technique.
- 10. Write a C program to simulate the Best Fit contiguous memory allocation technique.
- 11. Write a C program to simulate the First Fit contiguous memory allocation technique.
- 12. Write a C program to simulate the concept of Dining-Philosophers problem.
- 13. Write a C program to simulate the MVT algorithm.
- 14. Write a C program to implement FIFO page replacement technique.
- 15. Write a C program to write a C program for implementing sequential file allocation method.

BCA-I-Sem-II(NEP 2.0)
OPERATING SYSTEMS
CC105

Outcom	Course Outcomes Outcomes At the end of the course, students will be able to: CO1: Explain the fundamentals of the operating system. CO2: Comprehend multithreaded programming, CPU scheduling, process management, process synchronization, memory, deadlocks, and storage management. CO3: Compare the performance of CPU scheduling algorithms CO4: Identify the features of I/O and File handling methods.							
Total Ho	ours of Teaching	Lecture	Tutorial	Practical	Total Per Week	Credi	t Points: 2	
	: 30	2	0	0	2			
Tot	al Marks :50		Externa	l Exam The	eory : 40	Int	ernal: 10	
Syllabus C	ontents:					1		
Unit: I	Operating Systems Services of OS, Str Systems, Concepts o and real time Systems	ructure, A f Multipro	rchitecture	, types of	Operating Systems	, Batch	8 Hours	
	Operating Systems System programs, operating System programs, operating Systems System	Structures	• ,	•	•	*		
Unit: II	Process Management: Process Definition, Process states, Process State transitions, Process Scheduling, Process Control Block, Threads, Concept of multithreads, Benefits of threads, Types of threads. Process Scheduling: Definition, Scheduling objectives, Scheduling algorithms, CPU scheduling Preemptive and Non-preemptive Scheduling algorithms (FCFS, SJF and RR), Performance evaluation of the scheduling Algorithms							
Unit: III							8 Hours	
Unit-IV	avoidance, Banker's			<u> </u>	<u>-</u>	dlocks	7 Hours	
	Memory Management: Logical and Physical address map, Swapping, Memory allocation, MFT, MVT, Internal and External fragmentation and Compaction, Paging, Segmentation. Virtual Memory: Demand paging, Page Replacement algorithms, Allocation of frames, thrashing. I/O Management: Principles of I/O Hardware: Disk structure, Disk scheduling algorithms.							
Text Books: Reference Books:	Recommended To 2. Abraham Silberso 7th edition OR La	extbook) chatz, Pete ater edition Operating aum, Mod	er Baer Galen, Wiley Ind Systems, Indernation	vin, Greg Gadia Private L nternals and	imited, New Delhi. Design Principles, 5 Third Edition, Prent	ng Syste th editio	mPrinciples, n,Pearson India.	

		В	CA-I-Sem	-II(NEP 2.0)		
	OBJEC'	r orien	TED PRO	GRAMMI	NG USING JAVA		
			SEC	102			
					ing system concepts		
Course	CO2. To down!	•			programming languag	je.	
Outcom	es CO3: To devel	-		_	g and run Java progran	ns	
Duono quisito	ee ii To setup				, una ranta va program		
Prerequisite	Knowledge of I	Problem So	lving Tech	niques using	C programming lang	uage	
Total H	ours of Teaching	Lecture	Tutorial	Practical	Total Per Week	Credi	t Points : 6
	: 60	4	0	4	8		
Tot	al Marks :100		Externa	l Exam The	eory : 80	Int	ernal : 20
Pra	ectical : 50			Exam. Pra			
Syllabus C							
Synabus C		biect Orie	nted Prog	rammino: F	Basic Concepts of Ob	iect	
	OrientedProgrammir	· ·	O	U		,	15 Hours
	_	_			a, C and C++, Javaan	d	13 110018
	Internet, Java Environ				,		
Unit: I	· ·	Overview of Java Language: Introduction to Simple Java Program, Use					
	of Comments and Math function, Application of two classes, Java Program						
	Structure, Java Tokens and statements, Implementing Java programAnd JVM,						
	Command Line Argu		2)				
	(Text Book 1: Chapter Constants Variable			c. Constant	Variables Date	Types	
	·		d Data Types: Constants, Variables, Data Types, Giving values to Variables Symbolic Constants				15 Hours
	Declaration of Variables, Giving values to Variables, Symbolic Constants, Typecasting.						
Unit: II	Operators & Expressions: Arithmetic operators, Relational operators, Logical						
	operators, Assignment operators, Increment & Decrement operators, conditional						
	-	-			Evaluation of Expre		
	Type Conversions in	-		-	-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	* 1				sion Making with	Control	
	Statements, Looping	•	_		_		
	(Text Book						
Unit: III	Classes, Objects and		_				15 11
	Constructors, Method		•	· ·			15 Hours
	• •		•	_	Array, 2D arrays, Stri	ings,	
	Vectors, Wrapper Cla		• •				
					enting Interfaces. Mu		
	1 •	norphism, o	overriding i	methods, co	ncept of Multithreadir	ng in	
	Java	0.0	0)				
Unit-IV	(Text Book 1: Chapter						
Omit-1 V	Packages: Basics of		•	_	0		15 Hours
	packages, Creating u			_			10 110015
	Exception Handling	_	=		= -		
		•	Nested try,	Multiple ca	tch statements, Creati	ing	
	user defined exception		11 0 12				
	(Text Book	1: Chapters	S 11 & 13)				

Text Books: Reference Books:	 Balaguruswamy E. (2023). Programming with JAVA: A Primer. 7th edition. India:McGraw Hill Education Schildt, H. (2022). Java: The Complete Reference. 12th edition.McGraw-Hill Education Arunesh Goyal, The Essentials of JAVA, Khanna Book Publishing Company PrivateLimited, 2012. Tanweer Alam, Core JAVA, Khanna Book Publishing Company Private Limited, 2015. Y. Daniel Liang, Introduction to Java Programming, 7th Edition, Pearson, 2008. S. Malhotra and S. Choudhary, Programming in Java, 2nd Edition, OxfordUniversityPress, 2014. 	
Web Resources	 https://www.w3schools.com/java/. http://www.java2s.com/. https://onlinecourses.nptel.ac.in/noc22_cs47/preview 	

List of Practical:

- 1. Write a program to read two numbers from user and print their product.
- 2. Write a program to print the square of a number passed through commandline arguments.
- 3. Write a program to send the name and surname of a student through command line arguments and print a welcome message for the student.
- 4. Write a java program to find the largest number out of n natural numbers.
- 5. Write a java program to find the Fibonacci series & Factorial of a numberusing recursive and nonrecursive functions.
- 6. Write a java program to multiply two given matrices.
- 7. Write a Java program for sorting a given list of names in ascending order.
- 8. Write a Java program that checks whether a given string is a palindrome ornot . Ex:MADAM is apalindrome.
- 9. Write a java program to read n number of values in an array and display it inreverse order.
- 10. Write a Java program to perform mathematical operations. Create a class called AddSub with methods to add and subtract. Create another class calledMulDiv that extends from AddSub class to use the member data of the superclass. MulDiv should have methods to multiply and divide A main function should access the methods and perform the mathematical operations.
- 11. Create a JAVA class called Student with the following details as variables within it.
 - a. USN, NAME, BRANCH, PHONE, PERCENTAGE
 - b. Write a JAVA program to create n Student objects and print the USN, Name, Branch, Phone, and percentage of these objects with suitable headings.
- 12. Write a Java program that displays the number of characters, lines and wordsin a text.
- 13. Write a Java program to create a class called Shape with methods called getPerimeter() and getArea(). Create a subclass called Circle that overrides the getPerimeter() and getArea() methods to calculate the area and perimeter of a circle.
- 14. Write a Java program to create a class Employee with a method called calculateSalary(). Create two subclasses Manager and Programmer. In each subclass, override the calculateSalary() method to calculate and return the salary based on their specific roles.
- 15. Write a Java program using an interface called 'Bank' having function 'rate_of_interest()'. Implement this interface to create two separate bank classes 'SBI' and 'PNB' to print different rates of interest. Include additionalmember variables, constructors also in classes 'SBI' and 'PNB'.

- 16. Write a Java package program for the class book and then import the datafrom the package and display the result.
- 17. Write a Java program for finding the cube of a number using a package for various data typesand then import it in another class and display the results.
- 18. Write a Java program for demonstrating the divide by zero exceptionhandling.
- 19. Write a Java program that reads a list of integers from the user and throws an exception if any numbers are duplicates.
- 20. Create an exception subclass UnderAge, which prints "Under Age" along with the age value when an object of UnderAge class is printed in the catch statement. Write a class exceptionDemo in which the method test() throws UnderAge exception if the variable age passed to it as argument is less than 18. Write main() method also to show working of the program.

				-II(NEP 2.0			
		V		HNOLOGI	ES		
			SEC				
Course Outcomes Course Outcomes Course Outcomes CO2: To understand the concepts and architecture of the World Wide Web, Markulanguages along with Cascading Style Sheets. CO2: To understand the concepts of event handling and data validation mechanism CO3: To understand the concepts of embedded dynamic scripting on client side programming. CO4: To develop modern interactive web applications						nisms.	
Prerequisito							
Total H	lours of Teaching	Lecture	Tutorial	Practical	Total Per Week	Credit	t Points: 2
	: 15	1		2	3		
Pra	actical : 50	External Exam. Practical:50					
Syllabus C	Contents:					I	
Fundamentals of Web Architecture and Web designing Units I. Introduction to World Wide Web Protectle Web development tools Web						8 Hours	
Unit: II	Introduction to JavaS JavaScript (Alert, the JavaScript, Introduct and String handling in Validation mechanism	roduction to CSS: Types, Selectors and Responsiveness of a web page 2b Programming using JavaScript, XML and AJAX roduction to JavaScript: Variables and Arrays in JavaScript, Output System in aScript (Alert, throughput, Input box, Console). Functions and Events in aScript, Introduction to Document Object Model (DOM) in JavaScript. Date String handling in JavaScript. Manipulating CSS through JavaScript lidation mechanisms in JavaScript: Form Validation like required field					
					ar Expressions). Con uses, Key concepts		

	schemas, XSLT and XSL Elements and transforming with XSLT. Introduction to AJAX, Purpose, advantages and disadvantages, AJAX based Web applications.
Text Books:	1) Laura Lemay, Mastering HTML, CSS & Java Script Web Publishing, BPB Publications, 2016 2) Thomas A. Powell, The Complete Reference HTML & CSS, Fifth Edition, 2017
Reference Books:	 Tanweer Alam, Web Technologies, Khanna Book Publishing, 2011. DT Editorial Services, HTML 5 Black Book, Covers CSS 3, JavaScript, XML, XHTML, AJAX, PHP and jQuery, 2ed, DreamTech, 2016
Web Resources	1) www.javatpoint.com 2) www.w3schools.com 3) www.geeksforgeeks.org/web-technology/

Practical list:

PART-A (Programs based on Unit-I)

- 1) Create Your Resume using different HTML tags (use text, color and lists.)
- 2) Create your class time table using table tag.
- 3) Design a Webpage for your college containing description of courses, department, faculties, library etc. using list tags, href tags, and anchor tags.
- 4) Create web page using Frame with header frame, left frame, right frame, and status bar frame. On clicking in the left frame, information should be displayed in right frame.
- 5) Create web page for student admission form using different form elements in HTML.
- 6) Create a Web Page of a super market using internal CSS.
- 7) Use Inline CSS to format your resume created through HTML tags.
- 8) Use External CSS to format your time table created.
- 9) Use all the CSS (inline, internal and external) to format college web page that you have created.
- 10) Write a HTML Program to create your college website for mobile device using CSS.

PART – B (Programs based on Unit-II)

- 1) Write a JavaScript program using Switch case.
- 2) Write a JavaScript program using any 5 events.
- 3) Write a JavaScript program using built in JavaScript objects.
- 4) Develop a Simple calculator for addiction, subtraction, multiplication and division operations using JavaScript.
- 5) Create HTML form for Student Information like Register Number, Name, Mobile Number, DOB and Email-Id with validations using JavaScript. (Use required field validator and length validator)
- 6) Write an HTML program to create login page with validations using JavaScript. (Use Regular Expressions for validations)
- 7) Create a DTD for Newspaper article.
- 8) Create XML schema for Student Information.
- 9) Create XSL file to convert XML file to XHTML file
- 10) Write a Program to retrieve date from a text file and displaying it using AJAX.

	BCA-I-Sem-II (NEP 2.0)				
	INDIAN CONSTITUTION				
	VAC201				
	This course offers a unique perspective on the Constitution of India, focusing on its				
	economic dimensions and impact on business. It delves into the historical and ideological				
	underpinnings of the Constitution as an economic document, tracing its evolution from				
	post-colonial economic governance to contemporary debates. Students explore				
	constitutional battles over land reforms, economic liberalization, and fiscal federalism,				
Course	gaining insights into competing economic ideologies and interests. Through case studies				
Description	and legal analysis, they examine fundamental rights related to business, fiscal federalism,				
	and constitutional issues shaping India's economic landscape.				
	By the end of the course, students will develop a nuanced understanding of the				
	Constitution's role in shaping economic policies and its implications for business practices,				
	equipping them with valuable insights for careers in business management and policy				
	advocacy.				
	1. Develop an understanding of the Indian Constitution beyond legal and political lenses,				
	emphasizing its significance for business students.				
	2. Recognize the importance of comprehending constitutional basics and their impact on				
	trade, economy, and business practices.				
	3. Analyze the inclusion of economic justice in the preamble and its implications for				
Course	post-colonial economic policies.				
	4. Explore the legal history of competing claims between economic development and				
Objectives	principles of equity and justice in India.				
	5. Examine the transition from state-led industrialization to liberalization, highlighting				
	the constitutional underpinnings of these economic shifts.				
	6. Investigate the constitutional provisions relevant to business, such as the fundamental				

19.

	After completi	on of cour	ce student	s will be abl	e to :				
	-	After completion of course, students will be able to : 1. Explain concept of the Indian Constitution, particularly from the perspective of							
	economic go	•			articularly from the	perspective	5 01		
Course					ut angaing agnetityti	anal dahata	a and		
		. Employ a nuanced analytical framework about ongoing constitutional debates and battles which affect the domain of business							
Outcome							1.1		
			-		ic growth have to be		vith other		
	constitution	constitutional commitments, including social and economic justice.							
Total Ho	ours of Teaching	Lecture	Tutorial	Practical	Total Per Week	Credi	t Points		
	: 30	2	0	0	2	:	02		
Tota	al Marks:50		r	Theory: 30		Inter	mal: 20		
Syllabus C	ontents:								
	An Economic Hist	ory of the	Constituti	on of India					
	Historical understa	anding of	the con	stitution as	s an economic d	document.			
T7	Understanding the F	Understanding the Preamble, starting from the land reform cases in the 1950s to the							
Unit: I	validity of the bitce	validity of the bitcoin ban imposed by the RBI, this module signpost all of the							
	important economic moments in the constitutional history of post-colonial India;								
	Constitutional desig	n, Legal R	egulation a	and economi	c justice				
	Fundamental Righ	ts and Bu	siness in I	ndia					
	Article 19(1)(g) gra	Article 19(1)(g) grants every citizen the right, to practise any profession, or to carry							
	on any profession, occupation, trade, or business. Like other fundamental rights,								
Unit: II	this right is subject to reasonable restrictions impose by the state. This particular						8 Hours		
	provision of the Co	provision of the Constitution has been one of the most severely litigated freedoms.							
	Fundamental Duties	S.							
	Fiscal Federalism								
	Article articles 301	to 307 of th	ne Constitu	tion pertains	to Trade, Commerc	e and	7 Hours		
Unit: III	Intercourse within	the Territo	ory of Indi	a; Challenge	es associated with	fiscal			
omt. m	federalism in India	including	the vertica	l fiscal imba	lance; Article 280 c	of the	7 110u13		
	Constitution.								

Constitutional battles that shaped the economy

This module will be taught through key case studies that demonstrate the complex and fascinating overlap between the constitution and business and shall use Saurabh Kirpal's book Fifteen Judgments: Cases that Shaped India's Financial Landscape as our guide through this landscape. The case studies include the banning of diesel engine cars, Telecom regulation and ownership of broadcast media, Demonetisation, Aadhaar, the lifting of restrictions on dealing in cryptocurrencies.

7 Hours

Note: Relevant case studies based on the above units should be discussed in the class.

Suggested Field Work or Practical Work

Unit: IV

- 1. Study and analyse case-Rustom Cavasjee Cooper v. Union of India, (1970) 1 SCC 248
- 2. Study and analyse case- State of Rajasthan v. Mohan Lal Vyas, AIR 1971 SC 2068 (confirmation of a private monopoly, not a violation of fundamental right)
- 3. Study and analyse case -Mithilesh Garg v. Union of India, (1992) 1 SCC 168 : AIR 1992 SC 221 (Right to carry on business, not breached when it is liberalised)
- 4. Study and analyse case -Chintamanrao v. The State of Madhya Pradesh, AIR 1951 SC 118 (scope of reasonable restrictions in relation to trade and occupation)
- 5. Study and analyse case -Cooverjee B. Bharucha v. Excise Commissioner, Ajmer, AIR 1954 SC 220 (the reasonableness of the restriction imposed may depend upon the nature of the business and prevailing conditions including public health and morality)
- 6. Study and analyse case- T. B. Ibrahim v. Regional Transport Authority. Tanjore, AIR 1953 SC 79
- 7. Study and analyse case- Harman Singh v. RTA, Calcutta, AIR 1954 SC 190
- 8. Study and analyse case- Dwarka Prasad Laxmi Narain v. State of U.P., AIR 1954 SC 224
- 9. Study and analyse case- State of Bombay v. R.M.D. Chamarbaugwala, AIR 1957 SC 699

1. Study and Analyse case-Parbhani Transport Coop. Society Ltd. v. Regional Transport Authority, Aurangabad, AIR 1960 SC 801

Note:

Each student should prepare report any 5 practical or field work including detailed information as per guidelines and structure/format given by subject teacher. The report should be hand-written. Take photographs in your cell phone with prior permission during the visit to business units and discussion with people. Produce the black and white print of photographs in your report.

References

• The Oxford Handbook of the Indian Constitution, Oxford university press.

Cases

- Rustom Cavasjee Cooper v. Union of India, (1970) 1 SCC 248
- State of Rajasthan v. Mohan Lal Vyas, AIR 1971 SC 2068 (confirmation of a private
- monopoly, not a violation of fundamental right)
- Mithilesh Garg v. Union of India, (1992) 1 SCC 168: AIR 1992 SC 221 (Right to
- carry on business, not breached when it is liberalised)
- Chintamanrao v. The State of Madhya Pradesh, AIR 1951 SC 118 (scope of
- reasonable restrictions in relation to trade and occupation)
- Cooverjee B. Bharucha v. Excise Commissioner, Ajmer, AIR 1954 SC 220 (the
- reasonableness of the restriction imposed may depend upon the nature of the
- business and prevailing conditions including public health and morality)
- T. B. Ibrahim v. Regional Transport Authority. Tanjore, AIR 1953 SC 79
- Harman Singh v. RTA, Calcutta, AIR 1954 SC 190
- Dwarka Prasad Laxmi Narain v. State of U.P., AIR 1954 SC 224
- State of Bombay v. R.M.D. Chamarbaugwala, AIR 1957 SC 699
- Parbhani Transport Coop. Society Ltd. v. Regional Transport

Authority, Aurangabad, AIR 1960 SC 801

- State of Bombay v. R. M. D. Chamarbaugwala, (1957) S.C.R. 874,
- G.K.Krishnan vs State of Tamil Nadu, 1975 SCC (1) 375
- Automobile Transport (Rajasthan) Ltd. Vs State of Rajasthan, AIR 1962 SC 1406