

#### **Group Formation & Topic Allocation list**

#### AY: 2020-2021

Class: TEIT-A&B

Group		Roll	Dept/				List of sub topics
No	Name of Group Members	No	Class/ Div	Subject Assigned	Modul e No	Topic name	
	Manav Agarwal	1		Operating			Basics of Operating System:
	Mohit Gupta	21					Operating system services
		21				Introduction	and interface
1			A	System	1	to Operating	Operating System Design, OS
	Jyoti Khare	51		- /		Systems	structure, System calls, OS
							types, Process states ,
							Process State transitions Process Control Block
	Dev Jindani	46					,Context switching – Threads
							– Concept of multithreads.
			_				Process Scheduling, Types of
	Manu Khandelwal	50					Schedulers ,Scheduling
							criteria : CPU utilization,
_			1	Operating		Process	Throughput, Turnaround
2			A	System	2	Management	Time, Waiting Time,
							Response Time (Definition
							only), Scheduling algorithms : Preemptive and Non-
	Ritesh Mishra	62					preemptive , FCFS ,SJF ,RR,
							Thread Scheduling and
							Multiple Processor
							Scheduling
							Synchronization: The critical
	Hinal Deriya	17					Section Problem, Peterson's
	Timai Denya						Solution, synchronization
			_				Hardware and semaphores, Classic problems of
				Operating System	3	_	Writer Problem, Dinning
							Philosopher Problem,
3			А			Process	Producer Consumer Problem;
						coordination	Deadlocks: System Model,
	Khushi Joshi	47					Deadlock Characterization,
							Methods for Handling
							Deadlocks, Deadlock Prevention, Deadlock
							Avoidance, Deadlock
							Detection, Recovery from
							Deadlock.
							Memory Management
							strategies: Background,
							Logical and Physical address
	Darshil Ajudia	3		Onersting		Marsarr	map , Memory allocation :
4			А	Operating	4	Memory Management	Contiguous Memory allocation – Fixed and
				System	4	Management	variable partition –
			1				Internal and External
	Akshat Chandel	9					fragmentation and
		_					Compaction ,Swapping,



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				er i de l'Autonomy ache			Contiguous Memory Allocation,
	Hinal Kuvadiya	40					Paging , Structure of the Page Table, Segmentation; Virtual Memory – Basics of Virtual Memory – Hardware and control structures – Locality of reference, Page fault Page Replacement, Allocation of Frames, Thrashing.
	Rohit Das	15					File system: File Concept, Access Methods, Directory and Disk Structure, File- System Mounting, File Sharing, Protection;
5	Chanchal Gupta	26	A	Operating System	5	File Systems in OS	Implementing file System: File-System Structure, File- System Implementation,
	Suman Gupta	33					Directory Implementation, Allocation Methods, Free- Space Management, Efficiency and Performance, Recovery, NFS
	Pratik Jain	38	A	Operating System	6		Overview of Mass-Storage Structure, Disk Structure, Disk Attachment, Disk Scheduling, Disk Management, RAID Structure,
6	Priyansh Jain	39				Secondary Storage Structure	Stable-Storage Implementation, Tertiary- Storage Structure, Swap- Space Management;
	Jainam Jagani	41					I/O systems: Overview I/O Hardware, Application I/O Interface, Kernel I/O Subsystem
7	Vaibhav Kumar	12		Countographic		Introduction	Principle of security, Service Mechanisms and attacks-the OSI security architecture- Network security model- Classical Encryption techniques (Symmetric cipher model,
	Nidhi Gupta	28	A	Cryptography & Network Security	1	Introduction & Classical Cryptography	mono-alphabetic and poly- alphabetic substitution techniques: Vignere cipher, playfair cipher, Affine cipher,Hill cipher,
	Aditya Singh	52					transposition techniques: keyed and keyless transposition ciphers, steganography).



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8	Richa Gupta	30					Block cipher principles-block cipher modes of operation, Data Encryption Standard, Triple DES, Advanced Encryption Standard (AES)- Blowfish-RC5 algorithm.
	Chaithanya Moozhickal	63	А	Cryptography & Network Security	2	Block Ciphers & Public Key Cryptography	Public key cryptography: Principles of public key cryptosystems-The RSA Cryptosystem, Rabin Cryptosystem, Elgamal Cryptosystem, Elliptic Curve Cryptosystems.
	Shilpi Char	43					Key management – Diffie Hellman Key exchange
	Ritika Chaube	10					Authentication requirement – Authentication function , Types of Authentication,
9	Pratik Bhatt	6	А	Cryptography & Network Security	3	Cryptographi c Hashes & Digital Signatures	MAC – Hash function – Security of hash function and MAC MD5 Message Digest Algorithm, Secure Hash Algorithm, Digital signature and
	Parth Desai	18					authentication protocols: Needham Schroeder Authentication protocol, Digital Signature Schemes – RSA, El Gamal. Digital Certificate: X.509, PKI
10	Vanshita Agarwal	2	А	Cryptography & Network		Protection of Computing Resources	Secure Programs , Non- malicious Program Errors – Buffer Overflows, Incomplete Mediation; Viruses and Other Malicious Code – Methods of Control – Developmental Controls, Objects to be Protected;
	Saloni Dalvi	13		Security		and Security Features	User Authentication – Use of Passwords, Additional
	Sayantani Das	16					Authentication Information, Attacks on Passwords, Exhaustive Attack, Password Selection Criteria.
11	Ritik Gupta	31	А	Cryptography & Network	5	Network Security	Network security basics: TCP/IP vulnerabilities (Layer wise), Packet Sniffing, ARP spoofing, port scanning, IP spoofing, TCP syn flood, DNS Spoofing.
	Ritesh Dewoolkar	19		Security		Security	Denial of Service: Classic DOS attacks, Source Address spoofing, ICMP flood, SYN flood, UDP flood, Distributed Denial of Service,



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	Rohan Kuckian Suraj Jha	36 45		Cryptography		Network	Defenses against Denial of Service Attacks. Firewalls, Intrusion Detection Systems: Host Based and Network Based IDS, Honey pots. Authentication Applications, Kerberos, Internet Security Protocols: SSL, TLS,
12	Aniket Jha	44	A	& Network Security	6	Security Applications	IPSEC: AH, ESP, Secure Email: PGP and S/MIME, Key Management.
13	Shubham Jain	5	A	Automata Theory	1	Introduction to Automata	Alphabets, Strings and Languages, automata and Grammars. Finite. Automata (FA) -its behavior; DFA - Formal definition, simplified notations (state transition diagram, transition table), Language of a DFA.
	Aman Khairwar	66	I heory NFA -Formal definition Language of an NFA. A Application: Text Searc with epsilon-transition		Theory	Language of an NFA. An Application: Text Search, FA with epsilon-transitions,	
	Abhishek Tripathi	69					Eliminating epsilon- transitions, Equivalence of DFAs and NFAs.
	Shivam Gupta	32		Automata Theory		Regular	Regular expressions (RE) - Definition, FA and RE, RE to FA, FA to RE, algebraic laws for RE, applications of REs, Regular grammars and FA, FA for regular grammar
14	Rinkesh Kumavat	53	A		2	Expression & Finite Automata	Regular grammar for FA, DFA Minimization Some decision properties of Regular languages -emptiness,
	Mohammad Ali Khan	49					finiteness, membership, equivalence of two DF As or REs, Finite automata with output.
	Kripa Damania	14				Regular	Proving languages to be non- regular - Pumping Lemma, and its applications. Some closure properties of Regular languages
15	Aman Gupta	25	A	Automata Theory	3	languages & Pumping Lemma	- Closure under Boolean operations, reversal, homomorphism, inverse homomorphism, etc.
	Pratik Gupta	29					Myhill-Nerode Theorem.



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	Ashish Anand	4				Context-free Grammar and Context Free Language	Formal definition, sentential forms, leftmost and rightmost derivations, the language of a CFG. Derivation tree or Parse tree- Definition, Relationship between parse trees and derivations.
16	Aditya Lohumi	56	А	Automata Theory	4		Parsing and ambiguity, Application of CFGs, Ambiguity in grammars and Languages. Simplification of CFGs - Removing useless symbols, epsilon- Productions, and unit productions, Normal forms - CNF and GNF. Proving that some languages are not context free -Pumping lemma for CFLs, applications. Some closure properties of CFLs -Closure under union, concatenation, Kleene closure, substitution, Inverse homomorphism, reversal, intersection with regular set, etc.
	Ravindra Chabhadia	64					Some more decision properties of CFLs, Review of some undecidable CFL problems. Context sensitive Grammar and linear bounded Automata
	Shubham Gadia	22		Distibuted systems	3	Processes	Threads, Code Migration: Approaches to Code
17	Heeth Jain	37	A				Migration, Migration and Local Resources, Migration in
	Pritesh Jain	42					Heterogeneous Systems
18	Neeraj Chauhan	11	A	Automata Theory	6	Turing Machines, Undecidabilit y and Pacursiyely	Formal definition and behavior, Transitions (diagrams, Functions and Tables) Language of a TM,Design of TM as generator, decider and acceptor., etc. Variants of TM: Non-deterministic, Multitrack, Multitape, Universal TM.
	Nilesh Gond	23				Recursively Enumerable Languages	Equivalence of Single and Multi Tape TMs, Power and Limitations of TMs, Design of Single and Multi Tape TMs as a computer of simple functions: Unary, Binary (Logical and Arithmetic), String operations (Length,



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-							Concat, Match, Substring Check, etc)	
	Rahul Kurmi	54					Recursive and recursively enumerable languages, Properties of recursive and recursively enumerable languages, A language that is not recursively enumerable. The universal language, Undecidability of the universal language, The Halting problem, Post's Correspondence Problem (PCP) -Definition, Undecidability of PCP.	
	Vivek Gupta	34				Introduction to web	Basic of HTML: Web System architecture-1,2,3 and n tier architecture, URL, domain name system, overview of HTTP and FTP, Cross browser compatibility issues, W3C Validators. Formatting and Fonts, Anchors, images, lists, tables, frames and forms.	
19	Eshaan Kushwaha	55	A	Web Programming	A Web 1 & Programming 1 Pro	1	technologies & Client-Side Programming : HTML, CSS and JavaScript	Introduction to CSS: Syntax of CSS, Exploring CSS Selectors, Inserting CSS in an HTML Document, Set Up Web Pages with CSS, Styling Text, Font, and Properties, Page Backgrounds.
	Varun Mewada	59					Introduction to JavaScript: JavaScript language constructs, Objects in JavaScript- Built in, Browser objects and DOM objects, event handling, form validation and cookies.	
20	Pranali Darekar	58	A	Web Programming	2	HTML5 and Responsive Web Design	HTML 5: Structure of a Web Page, HTML5 DOCTYPE, Page Encoding, HTML5 Tags/Elements - Audio and Video, Micro data and Custom data, Accessibility, Geo-location, Canvas, HTML5 And CSS3, Browser Support.	
	Anurag Mishra	60			L	with CSS3 & Bootstrap	CSS3 and Responsive Web Design: Introducing CSS3, Fonts and Text Effects,Borders and Box Effects, CSS3 Transitions, Transformations and Animations, Media Queries.	



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	Ashutosh Mishra	61					Bootstrap: Overview of Bootstrap, need to use Bootstrap, Bootstrap Grid System, Grid Classes, Basic Structure of a Bootstrap Grid, Typography, Tables, Images, Jumbotron, Wells, Alerts, Buttons, Button Groups, Badges/Labels, Progress Bars, Pagination, List Groups, Panels, Dropdowns, Collapse, Tabs/Pills, Navbar, Forms, Inputs, Bootstrap Grids, Grid System, Stacked/Horizontal, Bootstrap Themes, Templates.
	Nidhi Chaubey	8					JSON: Introduction to the JavaScript Object Notation (JSON), JSON vs XML, Need of JSON, JSON Syntax Rules, JSON Data, JSON Objects, JSON Arrays, JSON Uses, JSON Files, AJAX, Rich Internet Application using AJAX and JSON Node.js: Introduction to Node.js, Node modules, Selectors Syntax, Developing node.js web application, Event-driven I/O server-side JavaScript.
21	Harsh Mangukiya	A 57	A	Web Programming	3	JSON and JAVASCRPIT Frameworks	Express: Introduction to Express, First Express Application, Request and Response Objects, Implementing MVC Pattern, Express application configuration, Rendering Views.
	Amit Mishra	68					Angular.js: Introduction, Angular 2 Architecture, Language Choices, Introduction to Components, Templates, Interpolation, and Directives, Data Bindings and Pipes, Building Nested Components Services and Dependency Injection, Retrieving Data Using HTTP, Navigation and Routing Basics, Angular Modules.
22	Raj jadhav	35		Web		Server-Side	Introduction to PHP- Data types, control structures,
22	Saurabh Dubey	20	A	Programming	4	Programming : PHP	built in functions, building web applications using PHP- tracking users, PHP and





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							Mysql database connectivity with example
	Harika Moparty	48					Introduction to PHP Framework.
	Hridyansh Gupta	27					Web Services: Web service architecture, Components, Benefits, XML, SOAP,
23	Priyal Dumralia	65	А	Web Programming	5	Web Extensions and Web Services	WSDL, UDDI, RESTful Web Services, Comparison between SOAP and REST based Web services,
	Sakshi Madkholkar	67				Services	Security in Web Services, API vs Web Service, REST-ful web services, Resource Oriented Architecture.
	Sajjad shaikh	67					Introduction, Web Frameworks,
24	Prince Pandey	4	В	Web Programming	6	Python Web Framework:	Introduction to Django,
	Anita Uniyal	61		Frogramming		Django	Projects and Apps, "Hello World" Application.
	Sanket Muchhala	2		No SQL		Introduction to No SQL	Overview, and History of NoSQL Databases,Database Features of NoSQL,Difference Between RDBMS and NoSQL,Benefits of NoSQL Databases NoSQL business drivers,NoSQL
25	Aastha Shah	70	В		1		case studies,Keeping components simple to promote reuse, Using application tiers to simplify design, Speeding performance by strategic useof RAM, SSD, and disk
	Avisha Jain	69					Using consistent hashing to keep your cache current Comparing ACID and BASE , How to minimize downtime with database sharding, Brewer's CAP theorem
26	Aniket Singh	36				NoSQL data	NoSQL data Architecture patterns and its types:Key/Value stores, Graph stores, Column oriented stores and Document stores.
	Darsh Shetty	27	В	No SQL	2	architecture patterns	Document stores using MongoDB, Features, Consistency, Transactions, Availability, Query Features, Scaling, Suitable Use Cases, Event Logging, Content Management Systems,





							Blogging Platforms, Web Analytics or Real-Time Analytics, E-Commerce Applications,
	Sudhanshu Rai	13					When Not to Use, Complex Transactions Spanning Different Operations, Queries against Varying Aggregate Structure.
	Vivek Shah	20					How businesses are
	Vishal Singhaniya	41		IT Strategy and		Business Models, Competitive	modeled, and how they compete. The mission of businesses and other organizations, and the relationship between an organization's mission and its strategy. Competitive Domains, Competitive Consequences of Technological Change –
27		17	В	Standards	1	Strategy and Organization Mission	Creation of New Products, Changes in the Value Chain, Changes in the Value Constellation, Competitive Rivalry. Technological Characteristics of Competitive Domains – Technological Opportunity, Resource Requirements, Collateral Assets, Institutional Milieu, Speed.
	Hardik Sodhani	43		Green IT	4		Data Centres and Associate Energy Challenges, Data Centre IT Infrastructure,
28	Kavin Parikh	60	В			Green Data Canters	Data Centre Facility Infrastructure: Implications for Energy Efficiency,
	Riddhi Umap	49					IT Infrastructure Management, Green Data Centre Metrics
	Suyash Sawant	18					Signals of New Technology, What is Technology Intelligence, Importance of
29	Abhijeet Pawar	8	в	IT Strategy and	2	Technology	Technology Intelligence, Levels of Technology Intelligence, External versus Internal Technology
23	Siddeshwari Patil	7		Standards	2	Intelligence	Intelligence. Mapping the Technology Environment – Steps in Mapping, Mapping the Macrolevel and Industry Level Environment. Mechanisms for Data Collection – Challenges,





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							Organizational Arrangements and Key Principles for Data Collection
	Tanisha rai	14					Column- oriented NoSQL databases using Apache HBASE, Column-oriented NoSQL databases using Apache Cassandra,
30	Vidhi Rana	15	В	No SQL	3	Column- oriented NoSQL database	Architecture of HBASE, What Is a Column-Family Data Store? Features, Consistency, Transactions, Availability, Query Features, Scaling, Suitable Use Cases, Event Logging
	Aditi singh	33					Content Management Systems, Blogging Platforms, Counters, Expiring Usage, When Not to Use
	Nandini Yadav	55					Software: Introduction, Energy-Saving Software
	Pratyaksha Ambast	42					Techniques, Evaluating and Measuring Software Impact to Platform Power.
31	Rahul singh	63	В	Green IT	2	Software development and data centers	Sustainable Software, Software Sustainability Attributes, Software Sustainability Metrics, Sustainable Software Methodology, Sustainability Hierarchy Models, Product Level Information, Individual Level Information, Functional Level Information, Functional Level Information, Organizational Level Information, Regional/CityLevel Information related to software development with relevant examples .
	Ganesh Verma	52					Business Strategy, Strategic Analysis and Decision Making using Product Evaluation Matrix, Market-Growth- Market-Share Analysis
32	Yash Pancholi	3	В	IT Strategy & Standards	3	Business Strategy and Technology	Matrix, X-Y Coordinating Method, M-by-N Matrix, SWOT Matrix, Formulation of
	Ravi Upadhyay	51				Strategy	Technology Strategy, Core Competencies, Exploitation of Core Competencies, Integration, Linking Technology & Business Strategies.
33	Abhishek Pandita	6	В	Green IT	3	Data Storage and	Storage Media Power Characteristics, Energy





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	Saakshi Pawar	9				communicati on	Management Techniques for Hard Disks, System-Level
	Deeksha Rai	12					Energy Management, Objectives of Green Network Protocols, Green Network Protocols and Standards. Case studies of various industries
	Arpit Sharma	74		IT Strategy and	_	IT and the	The functionality of the digital organization, and the role that IT plays in
34	Yash Panchal	64	В	Standards	4	Digital Organization	supporting it. Competitive and operational perspectives
	Tanay Dadhra	22					on IT, including analysis of both benefits and risk.
	Vikas Tiwari	47					Big data NoSQL solution, relationship between scalability and expressivity, Types of big data problems, Analyzing big data with a shared-nothing architecture,
35	Bimalesh Seth	66	В	No SQL	5	Using NoSQL to manage big data	master-slave versus peer-to- peer models, Using MapReduce to transform your data over distributed systems, Different ways that NoSQL systems handle big data problems,
	Durgesh Tiwari	46					Case study: event log processing with Apache Flume, computer-aided discovery of health care fraud
	Abhishek Mishra	58		Microprocesso		Introduction	8086 Architecture, Pin Diagram, Register Organization, Memory
36	Aditya Shetkar	62	В	r- Microcontrolle	1	to 8086 Microprocess	Segmentation, Physical address generation
	Ruchit Yadav	56		r Embedded System		or	mechanism, Memory bank, Signal Description, Minimum Mode, Maximum mode
37	Rohan Vishwakarma	53		No SQL	4	NoSQL Key- Value database & Graph NoSQL databases	NoSQL Key/Value databases using Riak, Key-Value Databases, What Is a Key- Value Store, Key-Value Store Features, Consistency, Transactions, Query Features, Structure of Data, Scaling, Suitable Use Cases, Storing Session Information, User Profiles, Preferences, Shopping Cart Data,



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	Hetansh Shah	72					When Not to Use, Relationships among Data, Multioperation Transactions, Query by Data, Operations by Sets.Graph NoSQL databases using Neo4, NoSQL database development tools and programming languages, Graph Databases,
	Nidhi Shetty	68					What is a Graph Database? Features, Consistency, Transactions, Availability, Query Features, Scaling, Suitable Use Cases, Connected Data, Routing, Dispatch, and Location-Based Services, Recommendation Engines, When Not to Use
	Dhanashree Shripatwar	29					IT and Michael Porter's Competitive Forces Framework and its relevance in the context of New age
38	Harsh Mukesh Sharma	23	В	IT Strategy and Standards	5	Alignment of IT with Business	Businesses IT and Value Chain Framework
	Bhavanish Dhamnaskar	16				strategy	IT and Business Process Reengineering; Virtual Organizations IT and Competitive Advantage
	Prabhat Upadhyay	50					IT Service Management System (ITSM) ISO/IEC 20000-1:2011, Information Security Management
	Rahul Tandel	59				IT Standards, Enterprise	System (ISMS) , Cloud Security ISO/IEC 27017:2015, IT Strategy Initiation, IT
39	Ashish Suthar	44	В	IT Strategy and Standards	6	architecture & strategic planning	management best practicesControl Objectives for Information and related Technology (COBIT) framework , IT Strategy Planning, Outsourcing, Offshoring & IT Subsidy,Critical success factors of IT strategy
	Urvi Sharma	26				Developing Web	Php and MongoDB, Python and MongoDB, Creating Blog
40	Janhavi Shetty	28	В	No SQL	6	Application with NOSQL	Application with PHP, NoSQL Database Administration
	Smruti Singh	40		NUSQL	0	and NOSQL Administratio	
A 1	Hasti Shah	19	D	Distributed	1	Fundamental	Introduction, Distributed Computing Models, Software
41	Rishabh Sharma	24	В	Systems	1	s of	Concepts, Issues in designing
41			В		1		Computing Models, Software





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-	Sourav Tripathi	48	Unde	r TCET-Autonomy Sche	me - 2019	Distibuted systems	Distributed System, Client – Server Model		
42	Rohan Sharma	25	- В	Microprocesso r- Microcontrolle r Embedded System	2	Instruction set of 8086 Microprocess or	Instruction Set – Arithmetic, Logical, String and Branch instruction. Addressing Modes, Procedure & Macro,		
	Pratishtha Singh	38					Assemble Directives,		
	Laxmi Yadav	54					Assembly language programming of 8086.		
43	Vishal Mourya	1	В	Microprocesso r- Microcontrolle r Embedded System	3	Interrupt & memory interfacing to 8086 Microprocess or	Interrupt structure, Interrupt vector table, Interrupt service Routine, Memory		
	Sanjay Shukla	30					mapping, Memory interfacing to 8086 microprocessor.		
	Adarsh Singh	32							
44	Umar Qureshi	73		Microprocesso r- Microcontrolle r Embedded System	4	Introduction to 8051 Microcontroll er	Features, Architecture of		
	Rishabh Singh	71					8051 microcontroller,		
	Megh Poddar	10	В				Special function registers (SFRs), I/O Ports, Pin Diagram, Register bank, Memory Organization, TIMER / COUNTER, Serial communication, Power down		

				System			communication, Power down modes
45	Amar Singh	35	В	Microprocesso r- Microcontrolle r Embedded System	5	Instruction set & programming of 8051 microcontroll er	Addressing Mode, Arithmetic and Logical instruction, Call and branch instruction,
	Parth Singh	37					Boolean Processor instruction, TIMER / COUNTER programming, Serial Communication Programming Interrupt structure, Interrupt service routine, Interfacing of D/A and A/D convertor, Stepper motor interfacing
	Shubham Singh	39					
46	Zoheb Siddiqui	31	В	Microprocesso r- Microcontrolle r Embedded System	6	Interrupts & I/O interfacing to 8051 microcontroll er	
	Pratik Thakur	45					
	Ankit Tiwari	57					
47	Hitarth Patel	65	В	Distributed System	2	Communicati on	Message Passing, Introduction to Message Passing, Advantages and features of Message Passing, Message Format, Message
	Prasad Nayak	11					Buffering, Multi Data gram Messaging , Group Communication, Remote Procedure Call (RPC): Basic RPC Operations, Parameter Passing, Extended RPC Models Remote Object Invocation: Distributed Objects, Binding a Client to an Object, Static
	Ritesh Pandey	5					





				Vs Dynamic RMI, Parameter,
				Passing, Java RMI Message
				Oriented Communication:
				Persistence and synchronicity
				in communication, Message
				Oriented Transient and
				Persistent Communications
Ritesh Mishra	62			

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Prepared By Mrs. Purvi Sankhe Mrs. Shruti Mathur TEIT-PBL Coordinator Checked By Dr. Bijith Markarkandy HOD-IT