CS-1A

Day/Period	1	п	ш	1:15-1:45	IV	v
Monday		Introduction to Informatio Technology - Lab Muiz Qadir	on and Communication		English Composition and C	Comprehension - Lab
Tuesday		Programming Fundamentals 1 Rizwan ul Haq	English Composition and Comprehension - Lab 1 Sadia Ashfaq		English Composition and Comprehension - Lab 1 Sadia Ashfaq	Digital Logic Design 1 Mirza Waqar Baig
Wednesday	Digital Logic Design - Lab 1 Muhammad Arslan		English Composition and Comprehension 1 Junaid Shahid	L U N C H	Programming Fundamentals 1 Rizwan ul Haq	English Composition and Comprehension 1 Muhammad Ammar
Thursday	Programming Fundamentals - Lab Mughees Ismail		English Composition and Comprehension 1 Junaid Shahid		Digital Logic Design 1 Mirza Waqar Baig	Linear Algebra 1 Amjad Hussain
Friday	Islamic Studies/Ethics 1 Rizwanullah		Islamic Studies/Ethics 1 Rizwanullah		Linear Algebra 1 Amjad Hussain	English Composition and Comprehension 1 Muhammad Ammar

CS-1B

Day/Peri od	I	п	ш	1:15-1:45	IV	v
Monday	Programming Fundamentals 1 Rizwan ul Haq	English Composition and C	Comprehension - Lab 1		Digital Logic Design - Lab Mujahid Hussain	1
Tuesday	Programming Fundamentals 1 Rizwan ul Haq	Linear Algebra 1 Amjad Hussain	Introduction to Information and Communication Technology - Lab		Introduction to Information and Communication Technology - Lab	Linear Algebra 1 Amjad Hussain
Wednesday	Digital Logic Design 1 Muhammad Sajid Iqbal	Programming Fundamentals - Lab Pariwish Touseef		L U N C H	English Composition and Comprehension 1 Muhammad Ammar English Composition and Comprehension 1 Junaid Shahid	
Thursday	Engrish composition and comprehension - 120 Com		English Composition and Comprehension 1 Junaid Shahid		Islamic Studies/Ethics 1 Rizwanullah	Digital Logic Design 1 Muhammad Sajid Iqbal
Friday		English Composition and Comprehension 1 Muhammad Ammar				Islamic Studies/Ethics 1 Rizwanullah

CS-1C

Day/Period	I	п	ш	1:15-1:45	IV	v
Monday	English Composition and Comprehension - Lab Rida Akram English Composition and Comprehension 1 Junaid Shahid	English Composition and Comprehension - Lab 1 Rida Akram	English Composition and Comprehension - Lab 1 Junaid Shahid		English Composition and Comprehension - Lab 1 Junaid Shahid	English Composition and Comprehension 1 Muhammad Ammar
Tuesday	Digital Logic Design - Lab 1 Mujahid Hussain		Islamic Studies/Ethics 1 Zia Ahmad		Islamic Studies/Ethics 1 Zia Ahmad	
Wednesday	Introduction to Information and Communication Technology - Lab			L U N C H	English Composition and Comprehension 1 Muhammad Ammar	Digital Logic Design 1 Dr. Adil Zulfiqar
Thursday	Linear Algebra 1 Amjad Hussain				Programming Fundamenta Ayesha Liaqat	ıls - Lab 1
Friday	Programming Fundamentals 1 Dr. Rabia Maqsood	Linear Algebra 1 Amjad Hussain	Digital Logic Design 1 Dr. Adil Zulfiqar		Programming Fundamentals 1 Dr. Rabia Maqsood	English Composition and Comprehension 1 Junaid Shahid

CS-1D

Day/Period	I	п	ш	1:15-1:45	IV	v
Monday	English Composition and C	Comprehension - Lab 1			Calculus and Analytical Geometry 1 Dr.Mushtaq Ahmad	
Tuesday	Programming Fundamentals 1 Dr. Rabia Maqsood	Programming Fundamentals - Lab 1 Muhammad Azeem Iftikhar				English Composition and Comprehension 1 Farah Iqbal
Wednesday	Applied Physics 1 Waheed Ahmad	Introduction to Information and Communication Technology - Lab 1 Aqsa Younas		L U N C H		Islamic Studies/Ethics 1 Zia Ahmad
Thursday	Applied Physics 1 Waheed Ahmad	English Composition and Comprehension - Lab 1 Rida Akram			Islamic Studies/Ethics 1 Zia Ahmad	
Friday	Programming Fundamentals 1 Dr. Rabia Maqsood	English Composition and Comprehension 1 Farah Iqbal	English Composition and Comprehension 1 Sadia Ashfaq		Calculus and Analytical Geometry 1 Dr.Mushtaq Ahmad	English Composition and Comprehension 1 Sadia Ashfaq

CS-1E

Day/Peri od	I	п	ш	1:15-1:45	īv	v
Monday	Programming Fundamentals 1 Dr. Danish Shehzad	Introduction to Information Technology - Lab Muiz Qadir	on and Communication			
Tuesday	Applied Physics 1 Waheed Ahmad	Pakistan Studies 1 Asif Naveed			English Composition and Comprehension - Lab 1 Mah Rukh	English Composition and Comprehension - Lab 1 Mah Rukh English Composition and Comprehension 1 Farah Iqbal
Wednesday	Programming Fundamentals 1 Dr. Danish Shehzad	English Composition and Comprehension - Lab 1 Anna Farooq English Composition and Comprehension 1 Muhammad Iqbal	English Composition and Comprehension - Lab 1 Amna Farooq	L U N C H		Calculus and Analytical Geometry 1 Dr. Mushtaq Ahmad
Thursday	Applied Physics 1 Waheed Ahmad	Calculus and Analytical Geometry 1 Dr. Mushtaq Ahmad			Programming Fundamenta Mughees Ismail	ıls - Lab
Friday	Pakistan Studies 1 Asif Naveed				English Composition and Comprehension 1 Muhammad Iqbal	English Composition and Comprehension 1 Farah Iqbal

CS-1F

Day/Period	I	II	ш	1:15-1:45	IV	v
Monday	Calculus and Analytical Geometry 1 Dr. Mushtaq Ahmad	Applied Physics Waheed Ahmad	1		Introduction to Information Technology - Lab Muhammad Haseeb Arshad	1
Tuesday	Programming Fundamentals 1 Saqib Hayat	English Composition and Comprehension 1 Sadia Ashfaq	English Composition and Comprehension - Lab 1 Mah Rukh		English Composition and Comprehension - Lab 1 Mah Rukh	Pakistan Studies 1 Asif Naveed
Wednesday			English Composition and Comprehension 1 Muhammad Iqbal	L U N C		
Thursday	Pakistan Studies 1 Asif Naveed	Programming Fundamentals - Lab 1 Umar Naseer			English Composition and C	Comprehensi on - Lab
Friday		English Composition and Comprehension 1 Sadia Ashfaq English Composition and Comprehension 1 Muhammad Iqbal	Calculus and Analytical Geometry 1 Dr. Mushtaq Ahmad			Programming Fundamentals 1 Saqib Hayat

CS-3A

Day/Period	I	п	ш	1:15-1:45	IV	v
Monday	Object Oriented Programm Muhammad Hannan Faroo	1	Calculus and Analytical Geometry 1 Bushra Niaz Discrete Structures 1 Dr. Muhammad Ahmad			Linear Algebra 1 Ghilmana Sarmad
Tuesday	Computer Organization and Assembly Language 1 Abdul Qadeer Bilal	Applied Physics Muhammad Mohsin Hameed Data Structures Muhammad Husnain	Computer Organization and Assembly Language - Lab 1 Abuzar Ghafari Digital Logic Design 1 Muhammad Irfan Ishaq		Computer Organization and Assembly Language - Lab 1 Abuzar Ghafari	Digital Logic Design 1 Muhammad Irfan Ishaq
Wednesday	Finance & Accounting 1 Agha Mureed Ahmad Khan	Data Structures 1 Muhammad Husnain Object Oriented Programming 1 Shoaib Saleem		L U N C H	Data Structures - Lab 1 Saba Aslam Applied Physics 1 Muhammad Mohsin Hameed	Data Structures - Lab 1 Saba Aslam
Thursday	Calculus and Analytical Geometry 1 Bushra Niaz	Discrete Structures 1 Dr. Muhammad Ahmad	Linear Algebra 1 Ghilmana Sarmad		Computer Organization and Assembly Language 1 Abdul Qadeer Bilal	Differential Equations 1 Arfan Shahzad
Friday		Differential Equations 1 Arfan Shahzad				Finance & Accounting 1 Agha Mureed Ahmad Khan Object Oriented Programming 1 Shoaib Saleem

CS-3B

Day/Period	ī	II	ш	1:15-1:45	IV	v
Monday			Computer Organization and Assembly Language 1 Abdul Qadeer Bilal		Discrete Structures 1 Dr. Muhammad Ahmad	Fundamentals of Management 1 Muhammad Tayyeb Riaz
Tuesday						Object Oriented Programming 1 Dr Usman Habib
Wednesday	Computer Organization and Assembly Language 1 Abdul Qadeer Bilal	Data Structures - Lab 1 Muhammad Hannan Farooq		L U N C H		
Thursday	Object Oriented Programming 1 Dr Usman Habib	Computer Orgnaization and Assembly Language - Lab 1 Ali Raza			Object Oriented Programming - Lab 1 Muhammad Hannan Farooq Fundamentals of Management 1 Muhammad Tayyeb Riaz	Object Oriented Programming - Lab 1 Muhammad Hannan Farooq
Friday	Differential Equations 1 Arfan Shahzad		Discrete Structures 1 Dr. Muhammad Ahmad			Differential Equations 1 Arfan Shahzad

CS-3C

Day/Peri od	ī	п	ш	1:15-1:45	IV	v
Monday			Marketing Management 1 Syed Zeeshan Haider			Data Structures 1 Dr. Hashim Yasin
Tuesday			Differential Equations 1 Arfan Shahzad		Computer Orgnaization an Ali Raza	d Assembly Language - Lab
Wednesday				L U N C H		
Thursday	Data Structures - Lab 1 Mughees Ismail		Marketing Management 1 Syed Zeeshan Haider			
Friday		Data Structures 1 Dr. Hashim Yasin	Differential Equations 1 Arfan Shahzad			

CS-3D

Day/Period	ī	п	ш	1:15-1:45	IV	v
Monday	Differential Equations 1 Muhammad Waqas Javed	Data Structures 1 Muhammad Usman Joyia			Marketing Management Syed Zeeshan Haider	1
Tuesday		Data Structures 1 Muhammad Usman Joyia				
Wednesday	Discrete Structures 1 Usman Ghous		Data Structures - Lab 1 Saba Asl am	L U N C H	Data Structures - Lab 1 Saba Asl am	Differential Equations 1 Muhammad Waqas Javed
Thursday	Computer Orgnaization and Assembly Language - Lab Ali Raza					
Friday					Discrete Structures 1 Usman Ghous	

CS-3E

Day/Period	I	п	m	1:15-1:45	IV	v
Monday						
Tuesday					Finance & Accounting 1 Agha Mureed Ahmad Khan	
Wednesday				L U N C H		
Thursday		Computer Organization and Assembly Language - Lab 1 Abuzar Ghafari	Computer Organization and Assembly Language - Lab 1 Abuzar Ghafari Differential Equations 1 Hayat Ali			
Friday	Finance & Accounting 1 Agha Mureed Ahmad Khan	Differential Equations 1 Hayat Ali				

CS-5A

Day/Peri od	ī	п	ш	1:15-1:45	IV	v
Monday			Web Programming 1 Muhammad Shahrose Khan			Web Programming 1 Muhammad Shahrose Khan
Tuesday		Computer Networks 1 Masood Habib	Computer Networks - Lab 1 Ayesha Liaqat		Computer Networks - Lab 1 Ayesha Liaqat	Probability and Statistics 1 Haris Khurram
Wednesday		Software Design and Analysis 1 Dr. Muhammad Bilal	Theory of Automata 1 Anmol Bilal	L U N C H		
Thursday	Software Design and Analysis 1 Dr. Muhammad Bilal				Theory of Automata 1 Anmol Bilal	
Friday		Computer Networks 1 Masood Habib	Probability and Statistics 1 Haris Khurram			

CS-5B

Day/Period	I	п	ш	1:15-1:45	IV	v
Monday		Computer Networks - Lab Ayesha Liaqat	1			Web Programming 1 Muhammad Shahrose Khan
Tuesday		Software Design and Analysis 1 Dr. Muhammad Bilal				Marketing Management 1 Hafiz M.Zeeshan Raza
Wednesday				L U N C H	Computer Networks Dr. Bilal Khan	1
Thursday	Software Design and Analysis 1 Dr. Muhammad Bilal	Theory of Automata 1 Anmol Bilal			Web Programming 1 Muhammad Shahrose Khan	Marketing Management 1 Hafiz M.Zeeshan Raza
Friday						Theory of Automata 1 Anmol Bilal

CS-5C

Day/Period	I	п	ш	1:15-1:45	IV	v
Monday					Software Design and Analysis 1 Dr. Uzair Iqbal	
Tuesday	Software Design and Analysis 1 Dr. Uzair Iqbal					Computer Networks 1 Dr. Bilal Khan
Wednesday				L U N C H	Advanced Programming Awais Azam	1
Thursday		Computer Networks - Lab Sumaira Mustafa	1			Theory of Automata 1 Numan Shafi
Friday	Probability and Statistics 1 Haris Khurram		Probability and Statistics 1 Haris Khurram		Theory of Automata 1 Numan Shafi	Computer Networks 1 Dr. Bilal Khan

CS-5D

Day/Period	I	11	ш	1:15-1:45	IV	v
Monday		Psychology 1 Aisha Bano	Theory of Automata 1 Numan Shafi			Operating System 1 Usman Ghous
Tuesday		Database Systems 1 Saqib Hayat	Design and Analysis of Algorithms 1 Shoaib Saleem		Database Systems - Lab Saqib Hayat	1
Wednesday				L U N C H		
Thursday		Theory of Automata 1 Numan Shafi	Database Systems 1 Saqib Hayat		Operating Systems - Lab Muhammad Haseeb Arshad	1 I
Friday	Discrete Structures 1 Usman Ghous	Discrete Structures 1 Usman Ghous Psychology 1 Aisha Bano	Design and Analysis of Algorithms 1 Shoaib Saleem		Operating System 1 Usman Ghous	

CS-5E

Day/Peri od	I	п	ш	1:15-1:45	IV	v
Monday	Database Systems 1 Aliza Saced		Theory of Automata 1 Numan Shafi			
Tuesday	Database Systems - Lab Muhammad Shahrose Khar	1			Database Systems 1 Aliza Saeed	Design and Analysis of Algorithms 1 Shoaib Saleem
Wednesday	Design and Analysis of Algorithms 1 Shoaib Saleem	Psychology 1 Aisha Bano		L U N C H		Psychology 1 Aisha Bano
Thursday	Theory of Automata 1 Numan Shafi	Operating Systems - Lab Muhammad Yousaf	1			
Friday						

CS-7A

	1					
Day/Period	I	11	ш	1:15-1:45	IV	v
Monday	Data Mining 1 Dr. Rabia Maqsood				Information Security 1 Dr. Danish Shehzad	
Tuesday	Artificial Intelligence - La Saba Aslam	b 1	Data Mining 1 Dr. Rabia Maqsood			Information Security 1 Dr. Danish Shehzad
Wednesday	Artificial Intelligence 1 Dr. Shahnawaz Qureshi		Software Engineering 1 Awais Azam	L U N C H	Artificial Intelligence 1 Dr. Shahnawaz Qureshi	Software Engineering 1 Awais Azam
Thursday	Data Science 1 Adeel Ashraf Cheema		Data Science 1 Adeel Ashraf Cheema			Professional Practices in IT 1 Rizwan ul Haq
Friday	Professional Practices in IT 1 Rizwan ul Haq					

CS-7B

Day/Period	ī	п	ш	1:15-1:45	IV	v
Monday		Data Science 1 Adeel Ashraf Cheema	Data Mining 1 Nasreen Akhtar			
Tuesday	Information Security 1 Dr. Danish Shehzad	Software Engineering 1 Awais Azam			Professional Practices in IT 1 Masood Habib	Data Mining 1 Nasreen Akhtar
Wednesday		Professional Practices in IT 1 Masood Habib		L U N C H		
Thursday		Software Engineering 1 Awais Azam			Information Security 1 Dr. Danish Shehzad	
Friday		Data Science 1 Adeel Ashraf Cheema				

CS-7C

Day/Period	I	П	ш	1:15-1:45	IV	v
Monday	Software for Mobile Devices	s - Lab 1				
Tuesday			Applied Machine Learning 1 Dr. Hashim Yasin		Professional Practices in IT 1 Masood Habib	
Wednesday				L U N C H		
Thursday	Applied Machine Learning 1 Dr. Hashim Yasin				Information Security 1 Dr. Irfan ul Haq	
Friday					Information Security 1 Dr. Irfan ul Haq	Professional Practices in IT 1 Masood Habib

CS-7D

Day/Period	I	11	ш	1:15-1:45	IV	v
Monday		Information Security 1 Dr. Muhammad Umar Aftab				
Tuesday			Applied Machine Learning 1 Dr. Hashim Yasin		Software for Mobile Device Tahir Farooq	s-Lab
Wednesday			Professional Practices in IT 1 Tehreem Aslam	L U N C H		
Thursday					Applied Machine Learning 1 Dr. Hashim Yasin	
Friday		Professional Practices in IT 1 Tehreem Aslam	Information Security 1 Dr. Muhammad Umar Aftab			

CS-7E

Day/Period	I	п	ш	1:15-1:45	IV	v
Monday	Information Security 1 Dr. Muhammad Umar Aftab	Professional Practices in IT 1 Tehreem Aslam	Fundamentals of Software Project Management 1 Dr. Muhammad Bilal		Fundamentals of Software Project Management 1 Dr. Muhammad Bilal	
Tuesday			Software Testing 1 Dr. Uzair Iqbal			
Wednesday				L U N C H		
Thursday	Software Testing 1 Dr. Uzair Iqbal		Professional Practices in IT 1 Tehreem Aslam			
Friday					Information Security 1 Dr. Muhammad Umar Aftab	

CS-7F

Day/Period	I	п	ш	1:15-1:45	IV	v
Monday					Remote Sensing and GIS 1 Dr M. Shahzad Sarfraz	
Tuesday					Software Testing Dr. Uzair Iqbal	1
Wednesday				L U N C H	Remote Sensing and GIS 1 Dr M. Shahzad Sarfraz	
Thursday						
Friday						

CS-9A

Day/Period	ī	п	ш	1:15-1:45	IV	v
Monday					Computer Architecture 1 Muhammad Usman Joyia	
Tuesday						
Wednesday				L U N C H	Computer Architecture 1 Muhammad Usman Joyia	
Thursday					Software for Mobile Devices	s - Lab
Friday						

SE-1A

Day/Peri od	I	п	ш	1:15-1:45	IV	v
Monday	English Composition and Comprehension 1 Farah Iqbal English Composition and Comprehension 1 Sadia Ashfaq	Programming Fundamentals 1 Sumaira Mustafa	Calculus and Analytical Geometry 1 Bushra Niaz		English Composition and C	Comprehension - Lab
Tuesday	Introduction to Information Technology - Lab Umar Naseer	on and Communication 1				
Wednesday	English Composition and Comprehension - Lab 1 Ehtasham-Ul-Haq English Composition and Comprehension 1 Sadia Ashfaq	English Composition and Comprehension - Lab 1 Ehtasham-Ul-Haq	English Composition and Comprehension 1 Farah Iqbal	L U N C H	Programming Fundamenta Sumaira Mustafa	ıls - Lab 1
Thursday	Pakistan Studies 1 Asma Yaqoob	Calculus and Analytical Geometry 1 Bushra Niaz				Programming Fundamentals 1 Sumaira Mustafa
Friday		Applied Physics 1 Waheed Ahmad			Applied Physics 1 Waheed Ahmad	Pakistan Studies 1 Asma Yaqoob

SE-1B

Day/Peri od	I	п	ш	1:15-1:45	IV	v
Monday		English Composition and Comprehension 1 Muhammad Iqbal	Calculus and Analytical Geometry 1 Bushra Niaz			Applied Physics 1 Dr. Arslan Ahmed Amin
Tuesday	English Composition and Comprehension - Lab 1 Farah Iqbal		English Composition and Comprehension 1 Muhammad Iqbal		Applied Physics 1 Dr. Arslan Ahmed Amin	Pakistan Studies 1 Zainab Javeed
Wednesday	English Composition and Comprehension - Lab 1 Sadia Ashfaq	English Composition and Comprehension - Lab 1 Sadia Ashfaq English Composition and Comprehension 1 Rida Akram	Introduction to Information and Communication Technology - Lab Muhammad Haseeb Arshad	L U N C H	Introduction to Information and Communication Technology - Lab Muhammad Haseeb Arshad	Calculus and Analytical Geometry 1 Bushra Niaz
Thursday	Programming Fundamentals - Lab Aliza Saeed				Programming Fundamentals 1 Aliza Saeed	Pakistan Studies 1 Zainab Javeed
Friday	Programming Fundamentals 1 Aliza Saced					English Composition and Comprehension 1 Rida Akram

SE-3A

Day/Period	I	п	ш	1:15-1:45	IV	v
Monday	Linear Algebra 1 Ghilmana Sarmad				Marketing Management 1 Hafiz M.Zeeshan Raza	
Tuesday	Software Requirement Engineering 1 Pariwish Touseef		Human Computer Interaction 1 Dr. Shahnawaz Qureshi		Data Structures - Lab Aqsa Younas	1
Wednesday	Human Computer Interaction 1 Dr. Shahnawaz Qureshi		Object Oriented Programming - Lab 1 Muhammad Yousaf	L U N C H	Object Oriented Programming - Lab 1 Muhammad Yousaf	Software Requirement Engineering 1 Pariwish Touseef
Thursday					Data Structures 1 Muhammad Usman Joyia	
Friday	Object Oriented Programming 1 Dr Usman Habib	Marketing Management 1 Hafiz M.Zeeshan Raza	Object Oriented Programming 1 Dr Usman Habib		Data Structures 1 Muhammad Usman Joyia	Linear Algebra 1 Ghilmana Sarmad

SE-3B

Day/Period	I	11	ш	1:15-1:45	IV	v
Monday		Data Structures - Lab Asif Ameer	1		Human Computer Interaction 1 Dr. Shahnawaz Qureshi	
Tuesday					Finance & Accounting 1 Muhammad Nasif	Data Structures 1 Asif Ameer
Wednesday				L U N C H	Linear Algebra 1 Ghilmana Sarmad	
Thursday		Human Computer Interaction 1 Dr. Shahnawaz Qureshi				Software Requirement Engineering 1 Pariwish Touseef
Friday	Data Structures 1 Asif Ameer	Finance & Accounting 1 Muhammad Nasif	Software Requirement Engineering 1 Pariwish Touseef			Linear Algebra 1 Ghilmana Sarmad

SE-5A

Day/Period	I	11	ш	1:15-1:45	IV	v
Monday	Database Systems - Lab Nasreen Akhtar	1	Technical and Business Writing 1 Muhammad Nouman Iftikhar		Software Construction and Muhammad Azeem Iftikha	1
Tuesday		Probability and Statistics 1 Haris Khurram			Software Construction and Development 1 Dr. Affan Rauf	Operating Systems 1 Muhammad Husnain
Wednesday		Operating Systems - Lab 1 Muhammad Yousaf Operation Research 1 Dr. Muhammad Imran Babar	Operating Systems - Lab 1 Muhammad Yousaf	L U N C H	Database Systems 1 Nasreen Akhtar	Probability and Statistics 1 Haris Khurram
Thursday	Technical and Business Writing 1 Muhammad Nouman Iftikhar	Software Quality Engineering 1 Tehreem Aslam				Database Systems 1 Nasreen Akhtar
Friday			Software Quality Engineering 1 Tehreem Aslam		Software Construction and Development 1 Dr. Affan Rauf	Operating Systems 1 Muhammad Husnain Operation Research 1 Dr. Muhammad Imran Babar

SE-5B

Day/Peri od	I	п	ш	1:15-1:45	IV	v
Monday			Probability and Statistics 1 Haris Khurram		Technical and Business Writing 1 Muhammad Nouman Iftikhar	Software Quality Engineering 1 Abdul Qadeer Bilal
Tuesday						Software Construction and Development 1 Dr. Affan Rauf
Wednesday		Operation Research 1 Dr. Muhammad Imran Babar	Software Quality Engineering 1 Abdul Qadeer Bilal	L U N C H		
Thursday	Software Construction and Development 1 Dr. Affan Rauf	Probability and Statistics 1 Haris Khurram			Software Construction and Development - Lab Muhammad Azeem Iftikhar	
Friday	Technical and Business Writing 1 Muhammad Nouman Iftikhar				Operation Research 1 Dr. Muhammad Imran Babar	