CS-1A

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

CS-1B

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

CS-1C

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

CS-1D

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

CS-1E

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

CS-1F

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

CS-3A

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

CS-3B

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

CS-3C

Day/Period	I	п	ш	1:15-1:45	IV	v
Monday						Marketing Management 1 Syed Zeeshan Haider
Tuesday	1		Data Structures - Lab 1 Mughees Ismail		Data Structures - Lab 1 Mughees Ismail	Data Structures 1 Dr. Hashim Yasin
Wednesday		Marketing Management 1 Syed Zeeshan Haider		L U N C H		Data Structures 1 Dr. Hashim Yasin
Thursday						Differential Equations 1 Arfan Shahzad
Friday	Differential Equations 1 Arfan Shahzad					

CS-3D

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

CS-3E

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

CS-5A

Day/Period	I	11	ш	1:15-1:45	IV	v
Monday		Web Programming 1 Muhammad Shahrose Khan			Computer Networks - Lab Ayesha Liaqat	1
Tuesday	Software Design and Analysis 1 Dr. Muhammad Bilal		Theory of Automata 1 Anmol Bilal			
Wednesday		Probability and Statistics 1 Haris Khurram		L U N C H		
Thursday	Software Design and Analysis 1 Dr. Muhammad Bilal		Theory of Automata 1 Anmol Bilal		Computer Networks Masood Habib	1
Friday		Probability and Statistics 1 Haris Khurram				Web Programming 1 Muhammad Shahrose Khan

CS-5B

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

CS-5C

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

CS-5D

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

CS-5E

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

CS-7A

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

CS-7B

Day/Period	I	11	ш	1:15-1:45	IV	v
Monday		Information Security 1 Dr. Danish Shehzad	Data Science 1 Adeel Ashraf Cheema			
Tuesday		Professional Practices in IT 1 Masood Habib				Professional Practices in IT 1 Masood Habib
Wednesday			Data Mining 1 Nasreen Akhtar	L U N C H		Data Mining 1 Nasreen Akhtar
Thursday	Information Security 1 Dr. Danish Shehzad	Data Science 1 Adeel Ashraf Cheema			Software Engineering 1 Awais Azam	
Friday	Software Engineering 1 Awais Azam					

CS-7C

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

CS-7D

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

CS-7E

Day/Peri od	ī	п	ш	1:15-1:45	IV	v
Monday			Software Testing 1 Dr. Uzair Iqbal			
Tuesday						
Wednesday	Software Testing 1 Dr. Uzair Iqbal			L U N C H		
Thursday		Professional Practices in IT 1 Tehreem Aslam	Fundamentals of Software Project Management 1 Dr. Muhammad Bilal			
Friday	Information Security 1 Dr. Muhammad Umar Aftab	Fundamentals of Software Project Management 1 Dr. Muhammad Bilal	Professional Practices in IT 1 Tehreem Aslam		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 1 Dr. Uzair Iqbal	
Wednesday				L U N C H	Remote Sensing and GIS 1 Dr M. Shahzad Sarfraz	
Thursday						Software Testing 1 Dr. Uzair Iqbal
Friday						

CS-9A

Day/Peri od	ī	п	ш	1:15-1:45	IV	v
Monday	Computer Architecture 1 Muhammad Usman Joyia					
Tuesday					Computer Architecture 1 Muhammad Usman Joyia	
Wednesday				L U N C H		
Thursday		Software for Mobile Devices - Lab No-Teacher				
Friday						

SE-1A

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

SE-1B

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

SE-3A

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

SE-3B

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

SE-5A

Day/Peri od	ī	Ш	ш	1:15-1:45	IV	V	
Monday			Software Construction and Development - Lab 1 Muhammad Azeem Iftikhar		Software Construction and Development - Lab 1 Muhammad Azeem Iftikhar	Operating Systems 1 Muhammad Husnain	i
Tuesday	Database Systems 1 Nasreen Akhtar	Operating Systems - Lab Muhammad Yousaf	1		Operation Research 1 Dr. Muhammad Imran Babar	Software Quality Engineering Tehreem Aslam	ı
Wednesday		Technical and Business Writing 1 Muhammad Nouman Iftikhar	Probability and Statistics 1 Haris Khurram	L U N C H		Operation Research Dr. Muhammad Imran Babar	
Thursday	Database Systems 1 Nasreen Akhtar	Database Systems - Lab Nasreen Akhtar	1		Probability and Statistics 1 Haris Khurram	Operating Systems Muhammad Husnain	Į
Friday	Software Construction and Development 1 Dr. Affan Rauf	Technical and Business Writing 1 Muhammad Nouman Iftikhar			Software Construction and Development 1 Dr. Affan Rauf	Software Quality Engineering 1 Tehreem Aslam	l

SE-5B

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