CS-1A

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

CS-1B

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

CS-1C

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

CS-1D

Day/Peri od	I	п	ш	1:15-1:45	īv	v
Monday	Applied Physics 1 Waheed Ahmad	Programming Fundamentals 1 Dr. Rabia Maqsood			Programming Fundamenta Muhammad Azeem Iftikha	1
Tuesday	English Composition and Comprehension 1 Farah Iqbal	Introduction to Information Technology - Lab	on and Communication		Calculus and Analytical Geometry 1 Dr.Mushtaq Ahmad	Islamic Studies/Ethics 1 Zia Ahmad
Wednesday	Calculus and Analytical Geometry 1 Dr.Mushtaq Ahmad	English Composition and C	Comprehension - Lab 1	L U N C H	English Composition and C	Comprehensi on - Lab 1
Thursday	English Composition and Comprehension 1 Sadia Ashfaq	Programming Fundamentals 1 Dr. Rabia Maqsood				English Composition and Comprehension 1 Farah Iqbal
Friday	Applied Physics 1 Waheed Ahmad	Islamic Studies/Ethics 1 Zia Ahmad				English Composition and Comprehension 1 Sadia Ashfaq

CS-1E

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

CS-1F

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

CS-3A

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

CS-3B

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

CS-3C

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

CS-3D

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

CS-3E

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

CS-5A

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

CS-5C

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

CS-5D

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

CS-5E

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

CS-7A

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

CS-7B

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

CS-7C

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

CS-7D

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

CS-7E

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

CS-9A

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

SE-1A

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

SE-1B

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

SE-3A

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

SE-3B

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

SE-5A

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

SE-5B

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