

# CS-1A

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

# CS-1B

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

# CS-1C

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

# CS-1D

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

# CS-1E

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

# CS-1F

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

# CS-3A

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

# CS-3B

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



# CS-3C

Day/Period	I	II	III	1:15-1:45	IV	V
Monday	Marketing Management Syed Zeeshan Haider 1			L U N C H		
Tuesday	Differential Equations Arfan Shahzad 1				Computer Orgnaization and Assembly Language - Lab Ali Raza 1	
Wednesday					Data Structures Dr. Hashim Yasin 1	
Thursday	Data Structures - Lab Mughees Ismail 1		Marketing Management Syed Zeeshan Haider 1			Data Structures Dr. Hashim Yasin 1
Friday						

# CS-3D

Day/Period	I	II	III	1:15-1:45	IV	V
Monday	Data Structures Muhammad Usman Joyia <sup>1</sup>			L U N C H		
Tuesday		Differential Equations Muhammad Waqas Javed <sup>1</sup>	Data Structures Muhammad Usman Joyia <sup>1</sup>		Differential Equations Muhammad Waqas Javed <sup>1</sup>	
Wednesday			Data Structures - Lab Saba Aslam <sup>1</sup>		Data Structures - Lab Saba Aslam <sup>1</sup>	Discrete Structures Usman Ghous <sup>1</sup>
Thursday	Computer Orgnaization and Assembly Language - Lab Ali Raza <sup>1</sup>				Marketing Management Syed Zeeshan Haider <sup>1</sup>	Discrete Structures Usman Ghous <sup>1</sup>
Friday						Marketing Management Syed Zeeshan Haider <sup>1</sup>

# CS-3E

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

# CS-5A

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

# CS-5B

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

# CS-5C

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

# CS-5D

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

# CS-5E

Day/Period	I	II	III	1:15-1:45	IV	V
Monday		Design and Analysis of Algorithms Shoaib Saleem1		L U N C H	Design and Analysis of Algorithms Shoaib Saleem1	
Tuesday	Database Systems - Lab Muhammad Shahrose Khan1					
Wednesday	Theory of Automata Numan Shafi1				Database Systems Aliza Saeed1	
Thursday	Theory of Automata Numan Shafi1	Operating Systems - Lab Muhammad Yousaf1			Psychology Aisha Bano1	Database Systems Aliza Saeed1
Friday						Psychology Aisha Bano1



# CS-7A

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

# CS-7B

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

# CS-7C

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

# CS-7D

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

# CS-7E

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

CS-7F

Day/Period	I	II	III	1:15-1:45	IV	V
Monday		Remote Sensing and GIS <sup>1</sup> Dr M. Shahzad Sarfraz		L U N C H		Software Testing <sup>1</sup> Dr. Uzair Iqbal
Tuesday						
Wednesday						
Thursday					Software Testing <sup>1</sup> Dr. Uzair Iqbal	
Friday	Remote Sensing and GIS <sup>1</sup> Dr M. Shahzad Sarfraz					

CS-9A

Day/Period	I	II	III	1:15-1:45	IV	V
Monday				L U N C H		
Tuesday	Software for Mobile Devices - Lab No-Teacher		1			
Wednesday			Computer Architecture Muhammad Usman Joyia			
Thursday	Computer Architecture Muhammad Usman Joyia		1			
Friday						

# SE-1A

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



# SE-1B

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

# SE-3A

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

# SE-3B

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

# SE-5A

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

# SE-5B

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