

# CS-1A

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

# CS-1B

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

# CS-1C

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

# CS-1D

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

# CS-1E

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

# CS-1F

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

# CS-3A

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

# CS-3B

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



# CS-3C

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

# CS-3D

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

# CS-3E

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

# CS-5A

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

# CS-5B

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

# CS-5C

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

# CS-5D

Day/Period	I	II	III	1:15-1:45	IV	V
Monday	Design and Analysis of Algorithms Shoaib Saleem1		Psychology Aisha Bano1	L U N C H	Theory of Automata Numan Shafi1	
Tuesday		Database Systems - Lab Saqib Hayat1				Operating System Usman Ghous1
Wednesday	Theory of Automata Numan Shafi1		Operating Systems - Lab Muhammad Haseeb Arshad1		Operating Systems - Lab Muhammad Haseeb Arshad1	Discrete Structures Usman Ghous1
Thursday		Psychology Aisha Bano1	Database Systems Saqib Hayat1		Design and Analysis of Algorithms Shoaib Saleem1	
Friday			Database Systems Saqib Hayat1		Operating System Usman Ghous1	Discrete Structures Usman Ghous1

# CS-5E

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



# CS-7A

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

# CS-7B

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

# CS-7C

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

CS-7D

Day/Period	I	II	III	1:15-1:45	IV	V
Monday	Applied Machine Learning Dr. Hashim Yasin1			L U N C H		
Tuesday						Professional Practices in IT Tehreem Aslam1
Wednesday					Software for Mobile Devices - Lab Tahir Farooq1	
Thursday		Professional Practices in IT Tehreem Aslam1			Information Security Dr. Muhammad Umar Aftab1	
Friday		Applied Machine Learning Dr. Hashim Yasin1	Information Security Dr. Muhammad Umar Aftab1			

# CS-7E

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

CS-7F

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

CS-9A

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

# SE-1A

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



# SE-1B

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

# SE-3A

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

# SE-3B

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

# SE-5A

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

# SE-5B

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