

# CS-1A

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

# CS-1B

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

# 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 Junaid Shahid	L U N C H	English Composition and Comprehension - Lab Junaid Shahid	Islamic Studies/Ethics Zia Ahmad
Tuesday	Digital Logic Design - Lab Mujahid Hussain		English Composition and Comprehension Muhammad Ammar		Programming Fundamentals Dr. Rabia Maqsood	Digital Logic Design Dr. Adil Zulfikar
Wednesday	Introduction to Information and Communication Technology - Lab Aqsa Younas				Digital Logic Design Dr. Adil Zulfikar	English Composition and Comprehension Muhammad Ammar
Thursday		English Composition and Comprehension Junaid Shahid	Linear Algebra Amjad Hussain		Programming Fundamentals - Lab Ayesha Liaqat	
Friday	Islamic Studies/Ethics Zia Ahmad	Programming Fundamentals Dr. Rabia Maqsood	English Composition and Comprehension Junaid Shahid		Linear Algebra Amjad Hussain	

# CS-1D

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

# CS-1E

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

# CS-1F

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

# CS-3A

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

# CS-3B

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



# CS-3C

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

# CS-3D

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

# CS-3E

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

# CS-5A

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

# CS-5B

Day/Period	I	II	III	1:15-1:45	IV	V
Monday	Marketing Management Hafiz MZeeshan Raza1	Theory of Automata Anmol Bilal1	Computer Networks - Lab Ayesha Liaqat1	L U N C H	Computer Networks - Lab Ayesha Liaqat1	Theory of Automata Anmol Bilal1
Tuesday		Computer Networks Dr. Bilal Khan1				Software Design and Analysis Dr. Muhammad Bilal1
Wednesday			Web Programming Muhammad Shahrose Khan1			
Thursday						Software Design and Analysis Dr. Muhammad Bilal1
Friday			Marketing Management Hafiz MZeeshan Raza1			Web Programming Muhammad Shahrose Khan1

# CS-5C

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

# CS-5D

Day/Period	I	II	III	1:15-1:45	IV	V
Monday				L U N C H	Theory of Automata Numan Shafi           1	Discrete Structures Usman Ghous           1
Tuesday			Discrete Structures Usman Ghous           1		Database Systems - Lab Saqib Hayat           1	
Wednesday	Database Systems Saqib Hayat           1		Operating System Usman Ghous           1		Operating System Usman Ghous           1	Theory of Automata Numan Shafi           1
Thursday		Design and Analysis of Algorithms Shoaib Saleem           1			Operating Systems - Lab Muhammad Haseeb Arshad           1	
Friday	Psychology Aisha Bano           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			Theory of Automata Numan Shafi1	L U N C H		Theory of Automata Numan Shafi1
Tuesday	Database Systems - Lab Muhammad Shahrose Khan1		Psychology Aisha Bano1			Database Systems Aliza Saeed1
Wednesday	Design and Analysis of Algorithms Shoaib Saleem1		Design and Analysis of Algorithms Shoaib Saleem1			
Thursday	Psychology Aisha Bano1	Operating Systems - Lab Muhammad Yousaf1				
Friday		Database Systems Aliza Saeed1				



# CS-7A

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

# CS-7B

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

# CS-7C

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

# CS-7D

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

# CS-7E

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

CS-7F

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

CS-9A

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

# SE-1A

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



# SE-1B

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

# SE-3A

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

# SE-3B

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

# SE-5A

Day/Period	I	II	III	1:15-1:45	IV	V
Monday	Database Systems - Lab Nasreen Akhtar1		Software Quality Engineering Tehreem Aslam1	L U N C H	Software Construction and Development - Lab Muhammad Azeem Iftikhar1	
Tuesday	Operation Research Dr. Muhammad Imran Babar1	Database Systems Nasreen Akhtar1				Operating Systems Muhammad Husnain1 Operation Research Dr. Muhammad Imran Babar1
Wednesday	Probability and Statistics Haris Khurram1	Operating Systems - Lab Muhammad Yousaf1			Technical and Business Writing Muhammad Nouman Iftikhar1	Software Construction and Development Dr. Affan Rauf1
Thursday	Database Systems Nasreen Akhtar1	Software Quality Engineering Tehreem Aslam1			Software Construction and Development Dr. Affan Rauf1	Technical and Business Writing Muhammad Nouman Iftikhar1
Friday	Operating Systems Muhammad Husnain1	Probability and Statistics Haris Khurram1				

# SE-5B

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