

# CS-1A

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

# CS-1B

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

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

# CS-1D

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

# CS-1E

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

# CS-1F

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

# CS-3A

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

# CS-3B

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



# CS-3C

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

# CS-3D

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

# CS-5A

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

# CS-5B

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

# CS-5C

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

# CS-5D

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

# CS-5E

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



# CS-7A

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

# CS-7B

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

# CS-7C

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

# CS-7D

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

# 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					
Wednesday					Software Testing Dr. Uzair Iqbal 1	Information Security Dr. Muhammad Umar Aftab 1
Thursday					Fundamentals of Software Project Management Dr. Muhammad Bilal 1	
Friday	Information Security Dr. Muhammad Umar Aftab 1					Fundamentals of Software Project Management Dr. Muhammad Bilal 1

CS-7F

Day/Period	I	II	III	1:15-1:45	IV	V
Monday				L U N C H		
Tuesday			Software Testing Dr. Uzair Iqbal1			
Wednesday						
Thursday	Software Testing Dr. Uzair Iqbal1	Remote Sensing and GIS Dr M. Shahzad Sarfraz1				
Friday			Remote Sensing and GIS Dr M. Shahzad Sarfraz1			

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	Software for Mobile Devices - Lab No-Teacher <sup>1</sup>					
Wednesday						
Thursday						
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 Muhammad Ammar English Composition and Comprehension Farah Iqbal	English Composition and Comprehension - Lab Muhammad Ammar	English Composition and Comprehension - Lab Ehtasham-Ul-Haq	L U N C H	English Composition and Comprehension - Lab Ehtasham-Ul-Haq	Calculus and Analytical Geometry Bushra Niaz
Tuesday			English Composition and Comprehension Farah Iqbal		Calculus and Analytical Geometry Bushra Niaz	English Composition and Comprehension Sadia Ashfaq
Wednesday	Programming Fundamentals - Lab Sumaira Mustafa					
Thursday	Introduction to Information and Communication Technology - Lab Umar Naseer		English Composition and Comprehension Sadia Ashfaq		Programming Fundamentals Sumaira Mustafa	Pakistan Studies Asma Yaqoob
Friday	Applied Physics Waheed Ahmad		Programming Fundamentals Sumaira Mustafa		Pakistan Studies Asma Yaqoob	Applied Physics Waheed Ahmad



# SE-1B

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

# SE-3A

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

# SE-3B

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

# SE-5A

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

# SE-5B

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