

TIMETABLE - Spring 2023 (Week 11)							
DAY	ROOMS	08:00 - 09:30	09:30- 11:00	11:00 - 12:30	12:30 - 01:30	02:00 - 03:30	03:30 - 05:00
MONDAY	CL-1	Mr. Abid Rafiq MSc-IT 3rd (Self) Enterprise Application Development Dr Hafiz Faisal Shahzad	BSCS 2nd (Reg) Object Oriented Programming Mr. Aamir Zia		BSSE 2nd (Reg) Discrete Structures Dr. Ramzan Malik	MS (CS / IT / SE) 2nd Semester Research Methodology Dr Hafiz Faisal Shahzad	MS (CS / IT / SE) 2nd Semester Research Methodology Dr Hafiz Faisal Shahzad
	CL-2			BSIT 5th Semester Design & Analysis of Algorithm Ms. Iqra Malik	BSCS 4th (SS1) Comp Organization & Assembly Mr. Naveed Ahmad		
	CL-3	BSCS 2nd (Reg) Object Oriented Programming (Lab) Mr. Aamir Zia	BSIT 2nd (Reg) Object Oriented Programming Ms. Madiha Sarwar	Object Oriented Programming Ms. Madiha Sarwar	MSc-IT 3rd (Self) Network Design and Management Mr. Farooq Javid		
	CL-4		BSIT 4th (SS2) Web Technologies Ms. Iqra Khan	BSSE 4th (Self) Software Design and Architecture Ms. Qaisera Ramzan	BSSE 4th (Self) Web Engineering Ms. Iqra Khan		
	CL-5		BSCS 4th (SS2) Comp Organization & Assembly (Lab) Mr. Naveed Ahmad				BS(CS+IT+SE) 2nd Programming Fundamentals Mr. Muhammad Fahad
	CL-7			BSSE 2nd (Reg) Object Oriented Programming Mr. Aamir Zia			
	CL-8	BSCS 4th (SS2) Al Quran Mr. Khurram Shahzad	BSSE 2nd (SS1) Discrete Structures Mr. Nisar Ahmad		BSIT 2nd (SS1) Probability & Statistics Ms. Saba Atta	MS (CS / IT / SE) 2nd Semester Advance Web Engineering Mr. Saad Razzaq	MS (CS / IT / SE) 2nd Semester Advance Web Engineering Mr. Saad Razzaq
	LAB-2	BSSE 2nd (SS1) Object Oriented Programming Mr. Muhammad iqbal	BSCS 2nd (SS2) Object Oriented Programming Mr. Muhammad iqbal	MSc-IT 3rd (Self) Object Oriented Analysis & Design Mr. Mudassar Ali zaidi	BSCS 2nd (Reg) Digital Logic and Design Dr. Kaleem		
	CL-9			BSSE 2nd (SS1) Al Quran Mr. Rahat Ali Khan	BSSE 2nd (SS1) Object Oriented Programming (Lab) Ms. Sana Mumtaz	MS (CS / IT / SE) 2nd Semester Computer Vision Dr Hussam Ali	MS (CS / IT / SE) 2nd Semester Computer Vision Dr Hussam Ali
	CL-10				MSCS 2nd Semester Advance Artificial Intelligence Mr. Fahad Maqbool	MSCS 2nd Semester Advanced Artificial Intelligence Mr. Fahad Maqbool	
	CL-11	BSIT 2nd (Reg) Communication & Presentation Skills Mr. Faizan Ahmad		BSIT 4th (SS1) Design & Analysis of Algorithms Mr. Nisar Ahmad	BSSE 4th (Reg) Al Quran Mr. Muhammad Rashid Farooq		
	CL-12		BSSE 4th (Reg) Linear Algebra Mr. Nawazish Ali	BSIT 5th Semester System and Network Administration Mr. Abdul Qadeer	BSIT 4th (Reg) Linear Algebra Dr. Qamar Iqbal		
	CL-13	BSSE 2nd (Reg) (8:00 - 10:00 am) Islamic Studies Ms. Sadia Rafiq		BSCS 2nd (Reg) Digital Logic and Design Dr. Kaleem	BSCS 4th (Reg) Al Quran Mr. Haseebur Rehman		
	CL-14			BSCS 4th (SS2) Comp Organization & Assembly Mr. Naveed Ahmad	BSCS 2nd (SS1) Probability & Statistics Mr. Mohib ur Rehman		
	CL-15	BSCS 4th (SS1) Linear Algebra Ms. Umme Rubab	BSIT 4th (SS1) Operating Systems Ms. Hadiqa Afzal	BSSE 2nd (SS1) Software Engineering Mr. Saud bin Tahir	BSSE 2nd (SS2) Software Engineering Mr. Saud bin Tahir		
	LAB-101	BSCS 4th (Reg) Database Systems Dr. Muhammad Ilyas	BSCS 4th (Reg) Database Systems (Lab) Dr. Muhammad Ilyas	BSCS 4th (Reg) Design & Analysis of Algorithms Dr. Khalid Mahmood Aamir	BSCS 4th (SS2) Design & Analysis of Algorithms Dr. Khalid Mahmood Aamir		
	LAB-102	BSIT 4th (SS2) Linear Algebra Dr. Qamar Iqbal	BSCS 4th (SS1) Design & Analysis of Algorithms Dr. Khalid Mahmood Aamir	BSCS 4th (SS1) Al Quran Mr. Khurram Shahzad	BSIT 5th Semester Cloud Computing Dr. Humaira Bilal	MS (CS / IT / SE) 2nd Semester Cloud Computing Mr Azhar Mushtaq	MS (CS / IT / SE) 2nd Semester Cloud Computing Mr Azhar Mushtaq
	IoT Lab			BSCS 2nd (SS1) Communication Skills Ms. Sanawia		BS(CS+IT+SE) 4th Semester Calculus & Analytical Geometry Dr. Mumtaz	

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		08:00 - 09:30	09:30 - 11:00	11:00 - 12:30	12:30 - 01:30	02:00 - 03:30	03:30 - 05:00
TUESDAY	CL-1	MSC-IT 3rd (Self) Enterprise Application Development Dr Hafiz Faisal Shahzad		BSIT 5th Semester Information Security Mr. Waseem Ahmad			
	CL-2	BSCS 2nd (Reg) (8:00 - 9:00) Object Oriented Programming (Lab) Mr. Aamir Zia	BSCS 2nd (Reg) Discrete Structures Mr. Muhammad iqbal	BSCS 2nd (SS1) Discrete Structures Mr. Muhammad iqbal			
	CL-3	BSIT 2nd (SS2) Probability & Statistics Ms. Ishrat Fatima	BSIT 2nd (SS1) Object Oriented Programming Ms. Madiha Sarwar	BSIT 2nd (SS2) Object Oriented Programming Ms. Madiha Sarwar	BSIT 5th Semester Cloud Computing Dr. Humaira Bilal		
	CL-4		BSSE 4th (Reg) Web Engineering Ms. Iqra Khan		BSIT 4th (Reg) Computer Networks Ms. Sidra Batool		
	CL-5	BSIT 4th (SS2) Operating Systems Mr. Muhammad waqas Haider	BSIT 2nd (SS2) Software Engineering Mr. Qaisar Farooq		BSIT 2nd (Reg) AI Quran Mr. Mehmood Ashraf		
	CL-7			BSCS 2nd (SS2) Digital Logic and Design (Lab) Ms Hadiqa Afzal	BSCS 2nd (SS2) Discrete Structures Mr. Muhammad iqbal		
	CL-8			BSSE 2nd (SS1) Principles of Management Mr. Ahsan Javaid	BSIT 4th (SS1) Computer Networks (Lab) Mr. Abdul Qadeer		
	LAB-2	BSIT 4th (Reg) (7:30 - 9:30) Operating Systems (Lab) Ms. Iqra Malik	BSIT 4th (SS2) Operating Systems (Lab) Ms. Iqra Malik	BSSE 2nd (SS2) Principles of Management Dr. Naseer Abbas Khan	BSCS 2nd (SS1) Probability & Statistics Mr. Mohib ur Rehman	MSSE 2nd Semester Advance Software Project Manager Dr. Muhammad Ilyas	MSSE 2nd Semester Advance Software Project Manager Dr. Muhammad Ilyas
	CL-9	BSCS 4th (Reg) Linear Algebra Ms. Umme Rubab		MSC-IT 3rd (Self) Data Structures & Algorithms Mr. Aamir Zia	BSCS 4th (SS2) Web System and Technologies Ms. Iqra Khan		
	CL-10			BSIT 2nd (SS2) Probability & Statistics Ms. Ishrat Fatima	BSIT 2nd (SS2) Principles of Management Mr. Faheem Athar Haqqani	MSIT 2nd Semester Information Privacy and Security Mr. Farooq Javid	MSIT 2nd Semester Information Privacy and Security Mr. Farooq Javid
	CL-11	BSSE 2nd (Reg) AI Quran Mr. Rahat Ali Khan		BSSE 4th (Reg) Software Design and Architecture Ms. Qaisera Ramzan	BSIT 2nd (SS1) Principles of Management Mr. Kashif Ammar	MSCS 2nd Semester Advance Computer Architecture Dr. Kaleem	MSCS 2nd Semester Advance Computer Architecture Dr. Kaleem
	CL-12	BSSE 2nd (SS1) (8:00 - 10:00) Islamic Studies Ms. Sadia Rafiq		BSSE 2nd (Reg) Principles of Management Dr. Naveed Mushtaq	BSCS 4th (SS1) Linear Algebra Ms. Umme Rubab	BS(CS+IT+SE) 4th Semester Calculus & Analytical Geometry Dr. Mumtaz	
	CL-13	BSIT 2nd (SS1) Probability & Statistics Ms. Saba Atta	BSCS 2nd (SS1) Digital Logic and Design Dr. Kaleem	BSIT 4th (SS1) Design & Analysis of Algorithms Mr. Nisar Ahmad	BSIT 4th (SS2) Linear Algebra Dr. Qamar Iqbal		
	CL-14	BSIT 2nd (Reg) Communication & Presentation Skills Mr. Faizan Ahmad	BSIT 2nd (Reg) Software Engineering Mr. Qaisar Farooq	BSCS 4th (SS1) Web System and Technologies Ms. Iqra Khan	BSSE 2nd (SS1) Communication & Presentation Skills Ms. Khushboo Amir		
	CL-15	BSIT 4th (SS1) Linear Algebra Dr. Qamar Iqbal	Comp Organization & Assembly Mr. Naveed Ahmad	BSIT 4th (SS2) Computer Networks Ms. Sidra Batool	BSSE 2nd (SS2) Communication & Presentation Skills Ms. Khushboo Amir		
	LAB-101			BSCS 4th (Reg) Comp Organization & Assembly Mr. Naveed Ahmad	BSSE 4th (Self) Software Design and Architecture Ms. Qaisera Ramzan		
	LAB-102		BSSE 2nd (Reg) (09:00 - 11:00 am) Object Oriented Programming (Lab) Mr. Aamir Zia	BSIT 4th (Reg) Design & Analysis of Algorithms Dr. Khalid Mahmood Aamir	BSSE 2nd (Reg) Discrete Structures Dr. Ramzan Malik		
	IoT Lab					BS(CS+IT+SE) 2nd Programming Fundamentals Mr. Muhammad Fahad	BS(CS+IT+SE) 2nd Programming Fundamentals (lab) Mr. Muhammad Fahad

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DAY	ROOMS	08:00 - 09:30	09:30 - 11:00	11:00 - 12:30	12:30 - 01:30	02:00 - 03:30	03:30 - 05:00
WEDNESDAY	CL-1	BSCS 4th (SS2) Database Systems Dr Hafiz Faisal Shahzad	BSIT 2nd (SS1) Digital Logic Design Mr. Salman Ahmad	BSIT 2nd (Reg) Digital Logic Design Mr. Salman Ahmad	BSIT 2nd (SS2) Digital Logic Design Mr. Salman Ahmad		
	CL-2	MSc-IT 3rd (Self) Capstone Project I Dr Hussam Ali		BSIT 5th Semester Design & Analysis of Algorithms Ms. Iqra Malik	BSIT 5th Semester Information Security Mr. Waseem Ahmad		
	CL-3	BSSE 2nd (SS1) Object Oriented Programming Mr. Muhammad iqbal	BSIT 2nd (SS2) Object Oriented Programming Ms. Madiha Sarwar	BSIT 2nd (SS1) Principles of Management Mr. Kashif Ammar	BSCS 2nd (Reg) Probability & Statistics Mr. Waqar Pervaiz		
	CL-4		BSIT 4th (Reg) Web Technologies Ms. Samreen Razzaq	BSCS 2nd (SS1) Discrete Structures Mr. Muhammad iqbal	BSCS 2nd (SS2) Communication Skills Ms. Sanawia		
	CL-5		BSSE 2nd (Reg) Discrete Structures Mr. Muhammad iqbal	BSSE 2nd (Reg) Principles of Management Dr. Naveed Mushtaq	BSCS 4th (SS1) Web System and Technologies Ms. Iqra Khan		
	CL-7	BSCS 2nd (Reg) (8:00 - 9:00) Al Quran Ms. Zainab Bibi		BSIT 4th (SS1) Web Technologies Ms. Samreen Razzaq	BSCS 4th (Reg) Web System and Technologies Ms. Samreen Razzaq		
	CL-8			BSCS 2nd (SS2) Digital Logic and Design Dr. Kaleem	BSIT 4th (SS1) Operating Systems (Lab) Ms. Iqra Malik	MSCS 2nd Semester Theory of Computation Dr. Ramzan Malik	MSCS 2nd Semester Theory of Computation Dr. Ramzan Malik
	LAB-2			BSSE 4th (Self) Operating Systems Dr. Ramzan Malik	BSSE 4th (Self) Operating Systems(lab) Ms Anam Lodhi		
	CL-9	BSIT 4th (Reg) Linear Algebra Dr. Qamar Iqbal	BSSE 4th (Reg) Web Engineering Ms. Iqra Khan	MSc-IT 3rd (Self) Capstone Project I Dr Hussam Ali	MSc-IT 3rd (Self) Multimedia Systems and Design Mr. Qaisar Farooq		
	CL-10	BSIT 4th (SS2) (08:30 - 09:30) Computer Networks (Lab) Mr. Abdul Qadeer	BSIT 4th (SS1) Linear Algebra Dr. Qamar Iqbal	BSIT 2nd (SS2) Software Engineering Mr. Qaisar Farooq		MS (CS / IT / SE) 2nd Semester Telecommunication Systems Mr. Shafaan Khaliq Bhatti	MS (CS / IT / SE) 2nd Semester Telecommunication Systems Mr. Shafaan Khaliq Bhatti
	CL-11			BSIT 4th (Reg) Al Quran Mr. Bilal Ramzan		BS(CS+IT+SE) 4th Semester Data Structures and Algorithms Mr. Muhammad Fahad	
	CL-12	BSIT 2nd (Reg) Probability & Statistics Dr. Afshan	BSIT 2nd (Reg) Principles of Management Mr. Rafiullah Bilal		BSSE 4th (Reg) Software Design and Architecture Ms. Qaisera Ramzan		
	CL-13	BSCS 2nd (SS2) (9:00 - 10:00) Al Quran Ms. Zainab Bibi	BSCS 2nd (SS1) (10:00 - 11:00) Al Quran Ms. Zainab Bibi		BSIT 2nd (SS1) Communication & Presentation Skills Ms. Ibrah Naz		
	CL-14	BSSE 2nd (SS2) (08:00 - 10:00 am) Islamic Studies Ms. Sadia Rafiq			BSIT 4th (Reg) Operating Systems Ms. Anum Lodhi		
	CL-15		BSSE 2nd (Reg) Software Engineering Mr. Saud bin Tahir	BSSE 2nd (SS2) Communication & Presentation Skills Ms. Khushboo Amir	BSSE 2nd (SS2) Principles of Management Dr. Naseer Abbas Khan		
	LAB-101	BSCS 4th (SS1) Database Systems Dr. Muhammad Ilyas	BSCS 4th (SS1) Database Systems (Lab) Dr. Muhammad Ilyas	BSCS 4th (SS1) Design & Analysis of Algorithms Dr. Khalid Mahmood Aamir	BSCS 4th (SS2) Design & Analysis of Algorithms Dr. Khalid Mahmood Aamir		
	LAB-102		BSCS 4th (Reg) Design & Analysis of Algorithms Dr. Khalid Mahmood Aamir	BSSE 2nd (SS1) Software Engineering Mr. Saud bin Tahir	BSCS 2nd (SS1) Digital Logic and Design Dr. Kaleem		
	IoT - Lab				BSSE 2nd (Reg) Communication & Presentation Skills Ms. Khushboo Amir		

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DAY	ROOMS	08:00 - 09:30	09:30- 11:00	11:00 - 12:30	12:30 - 01:30	02:00 - 03:30	03:30 - 05:00
THURSDAY	CL-1	BSCS 4th (SS2) Database Systems Dr Hafiz Faisal Shahzad		BSCS 4th (SS1) Comp Organization & Assembly Mr. Naveed Ahmad	BSCS 4th (SS1) Comp Organization & Assembly Mr. Naveed Ahmad		
	CL-2	BSSE 2nd (SS2) Software Engineering Mr. Saud bin Tahir BSIT 2nd (Reg)	BSSE 4th (Reg) Operating Systems(lab) Ms Anam Lodhi	BSCS 4th (SS2) Web System and Technologies Ms. Iqra Khan	BSCS 4th (Reg) Web System and Technologies Ms. Samreen Razaq		
	CL-3	Principles of Management Mr. Rafiullah Bilal	Object Oriented Programming Ms. Madiha Sarwar	BSCS 2nd (SS1) Object Oriented Programming Mr. Aamir Zia	BSSE 2nd (SS2) Object Oriented Programming Mr. Muhammad iqbal		
	CL-4	BSCS 2nd (SS1) Communication Skills Ms. Sanawia	BSCS 2nd (Reg) Communication Skills Ms. Sanawia		BSCS 2nd (SS1) (12:30 - 1:30) Object Oriented Programming (Lab) Mr. Aamir Zia		
	CL-5		BSCS 2nd (SS2) Discrete Structures Mr. Muhammad iqbal	BSSE 4th (Self) Al Quran Mr. Muhammad Rashid Farooq	BSSE 4th (Reg) Operating Systems Dr. Ramzan Malik		BSCS 2nd Semester Mathematics II Ms. Maryam Shafiq
	CL-7		BSIT 5th Semester System and Network Administration Mr. Abdul Qadeer	BSIT 5th Semester Database Systems Ms. Kawish Habiba	BSIT 4th (SS2) Web Technologies Ms. Iqra Khan		BSIT 2nd Semester Mathematics II Ms. Salma Nasir
	CL-8	BSSE 4th (Self) Probability and Statistics Mr. Ali Hssan Malik			BSIT 4th (SS1) Computer Networks Ms. Sidra Batool	MSSE 2nd Semester Software Quality Assurance Mr. Abid Rafiq	MSSE 2nd Semester Software Quality Assurance Mr. Abid Rafiq
	LAB-2	BSIT 4th (SS2) Operating Systems Mr. Muhammad waqas Haider	BSIT 2nd (SS1) Software Engineering Mr. Qaisar Farooq	BSCS 2nd (SS2) Object Oriented Programming (Lab) Ms. Sana Mumtaz			BSSE 2nd Semester Mathematics II Mr. Zubair Ali
	CL-9	BSCS 2nd (Reg) Object Oriented Programming Mr. Aamir Zia	BSSE 4th (Self) Web Engineering Ms. Iqra Khan	BSIT 2nd (Reg) Software Engineering Mr. Qaisar Farooq	MSc-IT 3rd (Self) Multimedia Systems and Design Mr. Qaisar Farooq		
	CL-10		BSIT 4th (Reg) Web Technologies Ms. Samreen Razaq	MSc-IT 3rd (Self) Network Design and Management Mr. Farooq Javid		MSIT 2nd Semester Advanced Algorithms Dr. Khalid Mahmood Aamir	MSIT 2nd Semester Advanced Algorithms Dr. Khalid Mahmood Aamir
	CL-11	BSIT 2nd (SS2) Communication & Presentation Skills Ms. Ifrah Naz		BSIT 4th (SS2) Computer Networks Ms. Sidra Batool		BS(CS+IT+SE) 4th Semester Data Structures and Algorithms Mr. Muhammad Fahad	
	CL-12		MSc-IT 3rd (Self) Discrete Structures Dr. Ramzan Malik				
	CL-13		BSIT 4th (SS1) Operating Systems Ms Hadiga Afzal	BSSE 4th (Reg) Probability and Statistics Mr. Waqar Pervaiz			
	CL-14	BSSE 2nd (SS1) Principles of Management Mr. Ahsan Javaid	BSSE 2nd (Reg) Object Oriented Programming Mr. Aamir Zia	BSSE 2nd (SS2) Al Quran Mr. Rahat Ali Khan			
	CL-15		BSSE 2nd (SS2) Discrete Structures Mr. Nisar Ahmad	BSSE 2nd (SS1) Discrete Structures Mr. Nisar Ahmad	BSCS 2nd (SS2) Probability & Statistics Ms. Mahreen Sarwar		
	LAB-101	BSCS 4th (Reg) Database Systems Dr. Muhammad ilyas	BSCS 4th (Reg) Database Systems (Lab) Dr. Muhammad ilyas	BSIT 4th (Reg) Design & Analysis of Algorithms Dr. Khalid Mahmood Aamir	BSSE 4th (Self) Linear Algebra Mr. Nawazish Ali		
	LAB-102	BSIT 4th (Reg) Computer Networks (Lab) Mr. Abdul Qadeer		BSIT 2nd (SS2) Probability & Statistics Ms. Ishrat Fatima	BSIT 2nd (SS2) System and Network Administration (Lab) Mr. Abdul Qadeer		
	IoT - Lab			BSIT 4th (SS1) Web Technologies Ms. Samreen Razaq	Principles of Management Mr. Faheem Athar Haqqani	BSIT 4th (SS2) Design & Analysis of Algorithms Mr. Nisar Ahmad	

TIMETABLE - Spring 2023 (Week 11)							
DAY	ROOMS	8:00-9:20	09:20 - 10:40	10:40 - 12:00	12:00 - 01:20	02:00 - 03:30	03:30 - 05:00
FRIDAY	CL-1	BSSE 4th (Reg) Linear Algebra Mr. Nawazish Ali	BSCS 2nd (SS2) Object Oriented Programming Mr. Muhammad iqbal	BSSE 4th (Self) Operating Systems Dr. Ramzan Malik			
	CL-2	BSSE 4th (Self) Probability and Statistics Mr. Ali Hssan Malik	BSCS 2nd (SS1) Object Oriented Programming Mr. Aamir Zia				
	CL-3	BSCS 4th (Reg) Linear Algebra Ms. Umme Rubab		BSCS 4th (Reg) Comp Organization & Assembly Mr. Naveed Ahmad	BSIT 2nd (SS1) Digital Logic Design Mr. Salman Ahmad		BSIT 2nd (SS1) AI Quran Mr. Haseeb ur Rehman
	CL-4	BSCS 2nd (SS2) Probability & Statistics Ms. Mahreen Sarwar	BSSE 2nd (SS2) Discrete Structures Mr. Nisar Ahmad	MSc-IT 3rd (Self) Object Oriented Analysis & Design Mr. Mudassar Ali zaidi	BSSE 2nd (SS2) Object Oriented Programming(Lab) Ms. Mehwish Shehzadi		
	CL-5		MSc-IT 3rd (Self) Discrete Structures Dr. Ramzan Malik	BSCS 2nd (SS2) Digital Logic and Design Dr. Kaleem	BSIT 5th Semester Database Systems Ms. Kawish Habiba		
	CL-7	MSc-IT 3rd (Self) Data Structures & Algorithms Mr. Aamir Zia		BSSE 2nd (SS2) Object Oriented Programming Mr. Muhammad iqbal	BSSE 4th (Reg) Operating Systems Dr. Ramzan Malik		
	CL-8	BSSE 2nd (Reg) Discrete Structures Dr. Ramzan Malik		BSIT 5th Semester Database Systems (Lab) Ms. Kawish Habiba		BSIT 2nd Semester Mathematics II Ms. Salma Nasir	
	LAB-2	BSIT 2nd (SS2) Digital Logic Design Mr. Salman Ahmad	BSIT 2nd (SS1) Object Oriented Programming (Lab) Mr. Umair Mujtaba	BSIT 4th (SS2) Design & Analysis of Algorithms Mr. Nisar Ahmad	BSIT 2nd (SS2)) Object Oriented Programming (Lab) Mr. Umair Mujtaba		
	CL-9	BSIT 2nd (Reg) Object Oriented Programming (Lab) Mr. Umair Mujtaba	BSSE 2nd (Reg) Software Engineering Mr. Saud bin Tahir	BSIT 2nd (SS1) Software Engineering Mr. Qaisar Farooq	BSCS 2nd (SS1) Digital Logic and Design (Lab) Ms Hadiqa Afzal	BSCS 2nd Semester Mathematics II Ms. Maryam Shafiq	
	CL-10	BSIT 2nd (SS1) Communication & Presentation Skills Ms. Ifrah Naz	BSCS 4th (Reg) Comp Organization & Assembly Mr. Naveed Ahmad	BSCS 2nd (SS1) (10:40 - 11:30 am) Object Oriented Programming (Lab) Mr. Aamir Zia		BSSE 2nd Semester Mathematics II Mr. Zubair Ali	
	CL-11	BSCS 2nd (Reg) Probability & Statistics Mr. Waqar Pervaiz	BSIT 4th (SS1) Computer Networks Ms. Sidra Batool	BSCS 2nd (Reg) Communication Skills Ms. Sanawia	BSCS 2nd (SS2) Communication Skills Ms. Sanawia		
	CL-12			BSIT 2nd (Reg) Digital Logic Design Mr. Salman Ahmad	BSSE 2nd (SS1) Communication & Presentation Skills Ms. Khushboo Amir		
	CL-13	BSIT 4th (SS2) AI Quran Mr. Bilal Ramzan	BSIT 2nd (SS2) Communication & Presentation Skills Ms. Ifrah Naz	BSSE 2nd (Reg) Communication & Presentation Skills Ms. Khushboo Amir	BSIT 4th (SS1) AI Quran Mr. Bilal Ramzan		
	CL-14		BSIT 4th (Reg) Operating Systems Ms. Anum Lodhi	BSCS 4th (SS2) Linear Algebra Ms. Maryam Bashir			
	CL-15			BSIT 2nd (SS2) AI Quran Mr. Haseeb ur Rehman	BSIT 2nd (Reg) Probability & Statistics Dr. Afshan		
	LAB-101	BSCS 4th (SS1) Database Systems Dr. Muhammad ilyas	BSCS 4th (SS1) Database Systems (Lab) Dr. Muhammad ilyas	BSSE 4th (Reg) Probability and Statistics Mr. Waqar Pervaiz	BSCS 4th (SS2) Linear Algebra Ms. Maryam Bashir		
	LAB-102	BSCS 4th (SS2) Database Systems (Lab) Mr. Abid Rafiq		BSIT 4th (Reg) Computer Networks Ms. Sidra Batool	BSSE 4th (Self) Linear Algebra Mr. Nawazish Ali		
	IoT Lab	BSIT 4th (Reg) Computer Networks (Lab) Mr. Abdul Qadeer	BSCS 2nd (Reg) Digital Logic and Design (Lab) Ms Hadiqa Afzal		Computer Networks (Lab) Mr. Abdul Qadeer		
			Incharge Department CS&IT			Timetable Coordinator	

Architecture tradeoff analysis method

In software engineering, **architecture tradeoff analysis method (ATAM)** is a risk-mitigation process used early in the software development life cycle.

ATAM was developed by the Software Engineering Institute at the Carnegie Mellon University. Its purpose is to help

choose a suitable architecture for a software system by discovering trade-offs and sensitivity points.

ATAM is most beneficial when done early in the software development life-cycle, when the cost of changing architectures is minimal.

ATAM benefits

The following are some of the benefits of the ATAM process:^[1]

- identified risks early in the life cycle
- increased communication among stakeholders

- clarified quality attribute requirements
- improved architecture documentation
- documented basis for architectural decisions

ATAM process

The ATAM process consists of gathering stakeholders together to analyze business drivers (system functionality, goals, constraints, desired non-functional properties) and from these drivers extract quality attributes that are used to create scenarios. These scenarios are then used in conjunction with architectural approaches and architectural decisions to

create an analysis of trade-offs, sensitivity points, and risks (or non-risks). This analysis can be converted to risk themes and their impacts whereupon the process can be repeated. With every analysis cycle, the analysis process proceeds from the more general to the more specific, examining the questions that have been discovered in the previous cycle, until such time as the architecture has been fine-tuned and the risk themes have been addressed.

Steps of the ATAM process

ATAM formally consists of nine steps, outlined below:^[2]

1. Present ATAM – Present the concept of ATAM to the stakeholders, and answer any questions about the process.
2. Present business drivers – everyone in the process presents and evaluates the business drivers for the system in question.
3. Present the architecture – the architect presents the high-level architecture to the team, with an 'appropriate level of detail'

4. Identify architectural approaches – different architectural approaches to the system are presented by the team, and discussed.
5. Generate quality attribute utility tree – define the core business and technical requirements of the system, and map them to an appropriate architectural property. Present a scenario for this given requirement.
6. Analyze architectural approaches – Analyze each scenario, rating them by priority. The architecture is then evaluated against each scenario.

7. Brainstorm and prioritize scenarios – among the larger stakeholder group, present the current scenarios, and expand.
8. Analyze architectural approaches – Perform step 6 again with the added knowledge of the larger stakeholder community.
9. Present results – provide all documentation to the stakeholders.

These steps are separated in two phases: Phase 1 consists of steps 1-6 and after this phase, the state and context of the project, the driving architectural requirements and the state of the

architectural documentation are known.

Phase 2 consists of steps 7-9 and finishes the evaluation^[3]

See also

- ilities
- Architecture-centric design method
- Multi-criteria decision analysis
- ARID
- Software architecture analysis method, precursor to architecture tradeoff analysis method
- Architectural analytics

References

1. *"Architecture Tradeoff Analysis Method"* (<https://resources.sei.cmu.edu/library/asset-view.cfm?assetid=513908>) . Carnegie Mellon Software Engineering Institute. Retrieved 2018-04-20.
2. *Bass, Len; Clements, Paul; Kazman, Rick (April 9, 2003). Software Architecture in Practice, Second Edition. Addison Wesley Professional.*
3. *Rick Kazman; Mark Klein; Paul Clements. "ATAM: Method for Architecture Evaluation" (https://resources.sei.cmu.edu/asset_files/TechnicalReport/2000_005_001_13706.pdf) (PDF). Carnegie Mellon Software Engineering Institute. p. 39f. Retrieved 2018-04-20.*

External links

- Reduce Risk with Architecture Evaluation (<https://resources.sei.cmu.edu/library/asset-view.cfm?assetID=513805>).
- ATAM: Method for Architecture Evaluation (https://resources.sei.cmu.edu/asset_files/TechnicalReport/2000_005_001_13706.pdf).

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