CS-1A

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

CS-1B

Day/Period	I	п	ш	1:15-1:45	IV	v
Monday	Digital Logic Design 1 Muhammad Sajid Iqbal	English Composition and C	Comprehension - Lab 1		Digital Logic Design - Lab Mujahid Hussain	1
Tuesday	English Composition and Comprehension 1 Muhammad Ammar	Programming Fundamentals 1 Rizwan ul Haq	Introduction to Information and Communication Technology - Lab		Introduction to Information and Communication Technology - Lab	Digital Logic Design 1 Muhammad Sajid Iqbal
Wednesday	Islamic Studies/Ethics 1 Rizwanullah	Programming Fundamenta Pariwish Touseef	Programming Fundamentals - Lab 1 Pariwish Touseef		Linear Algebra Amjad Hussain	1
Thursday	English Composition and Comprehension - Lab Muhammad 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	English Composition and Comprehension 1 Junaid Shahid

CS-1C

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

CS-1D

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

CS-1E

Day/Period	I	п	ш	1:15-1:45	IV	v
Monday	English Composition and C	Comprehension - Lab 1				Pakistan Studies 1 Asif Naveed
Tuesday	Applied Physics 1 Waheed Ahmad	English Composition and Comprehension 1 Farah Iqbal English Composition and Comprehension 1 Muhammad Iqbal	Applied Physics 1 Waheed Ahmad		English Composition and C	Comprehensi on - Lab
Wednesday	Calculus and Analytical Geometry 1 Dr. Mushtaq Ahmad	Pakistan Studies 1 Asif Naveed		L U N C H		Calculus and Analytical Geometry 1 Dr. Mushtaq Ahmad
Thursday	Introduction to Information and Communication Technology - Lab 1 Muiz Qadir		English Composition and Comprehension 1 Farah Iqbal		Programming Fundamenta Mughees Ismail	ıls - Lab
Friday	Programming Fundamentals 1 Dr. Danish Shehzad				English Composition and Comprehension 1 Muhammad Iqbal	

CS-1F

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

CS-3A

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

CS-3B

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

CS-3C

Day/Period	I	п	ш	1:15-1:45	IV	v
Monday					Data Structures 1 Dr. Hashim Yasin	
Tuesday					Computer Orgnaization an	d Assembly Language - Lab 1
Wednesday				L U N C H	Marketing Management 1 Syed Zeeshan Haider	Differential Equations 1 Arfan Shahzad
Thursday	Data Structures - Lab Mughees Ismail	1			Data Structures 1 Dr. Hashim Yasin	
Friday	Marketing Management 1 Syed Zeeshan Haider				Differential Equations 1 Arfan Shahzad	

CS-3D

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

CS-3E

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

CS-5A

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

CS-5B

Day/Peri od	I	п	ш	1:15-1:45	IV	v
Monday		Computer Networks 1 Dr. Bilal Khan	Computer Networks - Lab 1 Ayesha Liaqat		Computer Networks - Lab 1 Ayesha Liaqat	
Tuesday	Marketing Management 1 Hafiz M.Zeeshan Raza	Theory of Automata 1 Anmol Bilal	Computer Networks 1 Dr. Bilal Khan			
Wednesday				L U N C H		
Thursday		Software Design and Analysis 1 Dr. Muhammad Bilal				
Friday		Web Programming 1 Muhammad Shahrose Khan	Theory of Automata 1 Anmol Bilal		Web Programming 1 Muhammad Shahrose Khan	Marketing Management 1 Hafiz M.Zeeshan Raza

CS-5C

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

CS-5D

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

CS-5E

Day/Peri od	ī	п	ш	1:15-1:45	IV	v
Monday			Theory of Automata 1 Numan Shafi		Psychology 1 Aisha Bano	Design and Analysis of Algorithms 1 Shoaib Saleem
Tuesday	Database Systems - Lab Muhammad Shahrose Khar	1				Design and Analysis of Algorithms 1 Shoaib Saleem
Wednesday				L U N C H	Theory of Automata 1 Numan Shafi	Database Systems 1 Aliza Saced
Thursday		Operating Systems - Lab Muhammad Yousaf	1			Database Systems 1 Aliza Saced
Friday			Psychology 1 Aisha Bano			

CS-7A

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

CS-7B

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

CS-7C

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

CS-7D

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

CS-7E

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

CS-7F

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

CS-9A

Day/Peri od	I	п	ш	1:15-1:45	IV	v
Monday						
Tuesday		Computer Architecture 1 Muhammad Usman Joyia				
Wednesday				L U N C H		Computer Architecture 1 Muhammad Usman Joyia
Thursday		Software for Mobile Devices - Lab No-Teacher				
Friday						

SE-1A

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

SE-1B

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

SE-3A

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

SE-3B

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

SE-5A

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

SE-5B

Day/Period	I	11	ш	1:15-1:45	IV	v
Monday	Probability and Statistics 1 Haris Khurram		Software Construction and Development 1 Dr. Affan Rauf			
Tuesday		Technical and Business Writing 1 Muhammad Nouman Iftikhar	Software Quality Engineering 1 Abdul Qadeer Bilal		Software Quality Engineering 1 Abdul Qadeer Bilal	
Wednesday			Probability and Statistics 1 Haris Khurram	L U N C H		Software Construction and Development 1 Dr. Affan Rauf
Thursday	Technical and Business Writing 1 Muhammad Nouman Iftikhar				Software Construction and Muhammad Azeem Iftikha	1
Friday		Operation Research Dr. Muhammad Imran Bab	1 ar			