

1.1.1 The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of Continuous Internal Assessment

### **Sample Course File**





RAJAGIRI COLLEGE OF MANAGEMENT AND APPLIED SCIENCES RAJAGIRI VALLEY P.O., KAKKANAD, KOCHI 682 039 Ph: 0484-2955270 Email: principal arajagiricollege edu.in www.rajagiricollege.edu.in

## **DEPARTMENT OF COMPUTER SCIENCE**

AFFILIATED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM, APPROVED BY AICTE

#### **Bachelor of Computer Application**

#### Programme Specific Outcome (PSO)

PSO NO	Programme Specific Outcome
PSO 1	Our graduates are able to understand the various parts of a computer.
PSO 2	Our graduates are able to apply mathematical knowledge, algorithmic concepts and various programming languages to solve problems logically.
PSO 3	Our graduates are able to design and create software's to address real world issues which satisfies industrial demands.

#### About the Course:

The present course will provide basic concepts of computer architecture and organization that can help the students to have a clear view as to how a computer system works. Central Processing Unit(CPU) is the brain of the computer, all types of data processing operations and all the important functions of a computer are performed by the CPU.Students able to understand the organization and working concepts of CPU through this course. Memory plays an important role in computer architecture. The present course also deals with detailed explanation of memory hierarchy. In addition to this, aspirants can learn about the operational concepts of parallel processing, pipelining and vector processing. This course is mainly divided into 5 modules.

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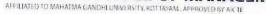


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Course Code	CA20	CRT04					
Course Title	Com	Computer Organization and Architecture					
Department	Com	puter Science					
Programme	Bache	elor of Compu	iter A	pplication			
Semester	2				ł.		
Course Type	Core						
Credit	4	Hrs/Week	4	Total Hours	5	72	
CO No.		Expected Cou Jpon complet students wi	ion o	f this course	Cognitive Level	PO, PSO No.	
CO1		in the fundan rchitecture of		l organization outer system.	U	PSO1	
CO2	execu mode	Explain CPU architecture, instruction execution stages and addressing mode, memory organization and mapping techniques		execution stages and addressing mode, memory organization and		U	PSO1
CO3		ate the conceparate the concep		pipelining	U	PSO1	
Cognitive	Level:	R- Remember E-Eva	r, U-L luate	Jnderstanding, , C-Create	Ap-Apply, A	n-Analyze,	







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Hours/ Unit/ Mule	Topics for Student Preparation (INPUT)	Procedure (Process)	Learning Outcome (OUTPUT) After studying this course, the students should able to	PO/ PSO	Assessme nt through
Module 1 BASIC COMPUTER ORGANIZATION AND DESIGN: Basic computer organization and design - Operational concepts, Instruction codes, Computer Registers, Computer Instructions, Memory locations and addresses, Instruction cycle, Timing and control, Bus organization.	Basic operational concepts of computer instructions,me mory and registers	Lecture Peer Teaching	<b>CO1</b> : Explain the fundamental organization and architecture of computer system.	PSO1	Descriptiv e Test
Module 2: CENTRAL PROCESSING UNIT: Central Processing Unit- General Register Organization, Stack Organization, Addressing modes, Instruction Classification, Program control.	General awareness regarding the working of CPU	Lecture Discussio n Peer Teaching	<b>CO2</b> : Explain CPU architecture, instruction execution stages and addressing mode, memory organization and mapping techniques	PSO1	Descriptiv e TestAssig nment
Module 3: MEMORY ORGANIZATION: Memory Organization – Memory Hierarchy, Main Memory, Organization of RAM, SRAM, DRAM, Read Only Memory- ROMPROM, EROM, EEPROM, Auxiliary memory, Cache memory, Virtual Memory, Memory mapping Techniques	Knowledge of computer memory and its classification	Lecture Video Powerpoi nt Presentati on	<b>CO2</b> : Explain CPU architecture, instruction execution stages and addressing mode, memory organization and mapping techniques	PSO1	Descriptiv e Test Seminar Assignme nt
Module 4 PARALLEL COMPUTER STRUCTURES: Parallel Computer Structures- Introduction to parallel processing, Pipeline computers, Multi processing systems, Architectural classification scheme-SISD, SIMD, MISD, MIMD.	Basic ideas of Parallel processing and its architectural classification	Lecture Discussio n	<b>CO3:</b> Illustrate the concept of pipelining and parallel processing.	PSO1	Descriptiv e Test Seminar Assignme nt
Module 5 PIPELINING AND VECTOR PROCESSING: Pipelining and Vector processing- Introduction to pipelining, Instruction and Arithmetic pipelines (design) Vector processing, Array Processors.	Basic overview of Pipelining and its types	Lecture Discussio n Peer Teaching	CO3: Illustrate the concept of MAGEMEN pipelining and parallel processing.	PSO1 UED SCIE	Assignme nt Descriptiv e Test



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#### **EVALUATION MAPPING**

Academic Year	2023-24			The second s
Semester	2			
Name of the subject	CA2CRT04 : Computer Organiza	ation And Ar	chitecture	
	Course Outcome	COI	CO2	CO3
Roll No	Student	IAT1	IAT2	Assignmen
BCA231301	ABHIJITH P NAIR	3	4	5
BCA231302	AGGIE MARIA ELDO	5	5	5
BCA231303	AKHILA T R	2.5	3	5
BCA231304	ALAN ANTONY JOY	3.5	3.5	5
BCA231305	ALFRED GISON	4	3.5	5
BCA231306	ALIXA JOHNSON	4.5	4	5
BCA231307	ALIZA ELIZABETH SANTHOSH	4	3.5	5
BCA231308	AMAANA ANAS	2	3.5	5
BCA231309	AMRA FATHIMA R	4.5	4	5
BCA231310	ANANYA ELIZABETH ARUN	5	4.5	5
BCA231311	ANASWARA E S	5	5	5
BCA231312	ANGEL MARIYA C J	5	4.5	5
BCA231313	ANGELINA GEO	3.5	4	5
BCA231314	ANGELINA MARY JOSEPH	2	3	5
BCA231315	ANN ELDHO MATHEW	4	4	5
BCA231316	ANN TREESSA BINU	4	4	5
BCA231317	ANNA JIYA JOSEPH	5	5	5
BCA231318	ARUN V S	5	4.5	5
BCA231319	ATHLIN TONY	2.5	2	5
BCA231320	ATHULYA P S	5	4.5	5
BCA231321	AURIA THERESA JIJO	5	2	5
BCA231322	CLARIBEL PEREIRA	5	3.5	5
BCA231323	COLWIN TP	3.5	3	5
BCA231324	DEYON THANKACHAN	3.5	3.5	5
BCA231325	DONAL JOSE	3.5	3.5	5
BCA231326	GAURY S NAIR	3.5	3.5	5
BCA231327	GAUTHAM NAIR	4.5	4	5
BCA231329	HARI PRIYA J	5	5	5
BCA231330	HRISHIKESH GOPAL	3	NA GEMEN	
BCA231331	IRINE MICHEAL	5	4.5	70 5
BCA231332	JEEVAN MARTIN	4.5	5	Es
BCA231333	JOEL GEORGE MAMMAN	4.5 2	4.5	I I I
BCA231334	JOEL JOSE	3.5	3.5° SERV	8 5



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BCA231335     JOEL MATHEW SHAJU     4     2.5     5       BCA231336     JOSEPH ANTO     4.5     3.5     5       BCA231337     JOSEPH GEORGE     5     5     5       BCA231337     JOSEPH GEORGE     5     5     5       BCA231339     JOSHUA MATHEW     1.5     3.5     5       BCA231340     KRISHNA B ARAVIND     5     4.5     5       BCA231341     MESENTA MARTIN     5     4.5     5       BCA231342     NAVAITH C S     2     1.5     5       BCA231343     NIRANJAN VINOD     2     3.5     5       BCA231344     NITHIN JOY     1.5     3.5     5       BCA231345     NIYA JUSTIN     2     1     5       BCA231346     NORAH VIN     5     4     5       BCA231347     NYJEL VINOY     3     2.5     5       BCA231348     POORNIMA UNNIKRISHNAN     3.5     3     5       BCA231349     RASHA FEBIN K     5     5     5  <		<u> </u>		www.rajagiricolle	gelean
BCA231336     JOSEPH ANTO     4.5     3.5     5       BCA231337     JOSEPH GEORGE     5     5     5       BCA231338     JOSHUA GEO     4.5     3     5       BCA231339     JOSHUA MATHEW     1.5     3.5     5       BCA231340     KRISHNA B ARAVIND     5     4.5     5       BCA231341     MESENTA MARTIN     5     4.5     5       BCA231342     NAVAJITH C S     2     1.5     5       BCA231343     NIRANJAN VINOD     2     3.5     5       BCA231344     NITHIN JOY     1.5     3.5     5       BCA231345     NIYA JUSTIN     2     1     5       BCA231346     NORAH VIN     5     4     5       BCA231347     NYJEL VINOY     3     2.5     5       BCA231348     POORNIMA UNNIKRISHNAN     3.5     3     5       BCA231349     RASHA FEBIN K     5     5     5       BCA231350     ROHAN MATHEW     2.5     3.5     5	BCA231335	JOEL MATHEW SHAJU	4	2.5	5
BCA231337     JOSEPH GEORGE     5     5       BCA231338     JOSHUA GEO     4.5     3     5       BCA231339     JOSHUA MATHEW     1.5     3.5     5       BCA231340     KRISHNA B ARAVIND     5     4.5     5       BCA231340     KRISHNA B ARAVIND     5     4.5     5       BCA231341     MESENTA MARTIN     5     4.5     5       BCA231342     NAVAJITH C S     2     1.5     5       BCA231343     NIRANJAN VINOD     2     3.5     5       BCA231344     NITHIN JOY     1.5     3.5     5       BCA231345     NIYA JUSTIN     2     1     5       BCA231346     NORAH VIN     5     4     5       BCA231347     NYJEL VINOY     3     2.5     5       BCA231348     POORNIMA UNNIKRISHNAN     3.5     3     5       BCA231349     RASHA FEBIN K     5     5     5       BCA231350     ROHAN MATHEW     2.5     3.5     5       BC	BCA231336	JOSEPH ANTO	4.5	3.5	
BCA231338     JOSHUA GEO     4.5     3     5       BCA231339     JOSHUA MATHEW     1.5     3.5     5       BCA231340     KRISHNA B ARAVIND     5     4.5     5       BCA231341     MESENTA MARTIN     5     4.5     5       BCA231342     NAVAJITH C S     2     1.5     5       BCA231343     NIRANJAN VINOD     2     3.5     5       BCA231344     NITHIN JOY     1.5     3.5     5       BCA231345     NIYA JUSTIN     2     1     5       BCA231346     NORAH VIN     5     4     5       BCA231347     NYJEL VINOY     3     2.5     5       BCA231348     POORNIMA UNNIKRISHNAN     3.5     3     5       BCA231349     RASHA FEBIN K     5     5     5       BCA231350     ROHAN MATHEW     2.5     3.5     5       BCA231351     ROHAN RENJITH     0     1     5       BCA231353     SANA SAJU     0     5     5	BCA231337	JOSEPH GEORGE	5	5	A second s
BCA231339     JOSHUA MATHEW     1.5     3.5     5       BCA231340     KRISHNA B ARAVIND     5     4.5     5       BCA231341     MESENTA MARTIN     5     4.5     5       BCA231342     NAVAJITH C S     2     1.5     5       BCA231343     NIRANJAN VINOD     2     3.5     5       BCA231344     NITHIN JOY     1.5     3.5     5       BCA231345     NIYA JUSTIN     2     1     5       BCA231346     NORAH VIN     5     4     5       BCA231347     NYJEL VINOY     3     2.5     5       BCA231348     POORNIMA UNNIKRISHNAN     3.5     3     5       BCA231349     RASHA FEBIN K     5     5     5       BCA231350     ROHAN MATHEW     2     2.5     5       BCA231351     ROHAN RENJITH     0     1     5       BCA231351     ROHAN RENJITH     0     1     5       BCA231353     SANA SAJU     0     5     5	BCA231338	JOSHUA GEO	4.5	3	
BCA231340     KRISHNA B ARAVIND     5     4.5     5       BCA231341     MESENTA MARTIN     5     4.5     5       BCA231342     NAVAJITH C S     2     1.5     5       BCA231343     NIRANJAN VINOD     2     3.5     5       BCA231344     NITHIN JOY     1.5     3.5     5       BCA231345     NIYA JUSTIN     2     1     5       BCA231346     NORAH VIN     5     4     5       BCA231347     NYJEL VINOY     3     2.5     5       BCA231348     POORNIMA UNNIKRISHNAN     3.5     3     5       BCA231349     RASHA FEBIN K     5     5     5       BCA231350     ROHAN MATHEW     2     2.5     5       BCA231351     ROHAN RENJITH     0     1     5       BCA231352     SAM ABRAHAM MATHEW     2.5     3.5     5       BCA231353     SANA SAJU     0     5     5       BCA231354     SHEETHAL FRANCIS CHITTILAPPILLY     5     5     5	BCA231339	JOSHUA MATHEW	1.5		
BCA231341     MESENTA MARTIN     5     4.5     5       BCA231342     NAVAJITH C S     2     1.5     5       BCA231343     NIRANJAN VINOD     2     3.5     5       BCA231343     NIRANJAN VINOD     2     3.5     5       BCA231344     NITHIN JOY     1.5     3.5     5       BCA231345     NIYA JUSTIN     2     1     5       BCA231346     NORAH VIN     5     4     5       BCA231347     NYJEL VINOY     3     2.5     5       BCA231348     POORNIMA UNNIKRISHNAN     3.5     3     5       BCA231349     RASHA FEBIN K     5     5     5       BCA231350     ROHAN MATHEW     2     2.5     5       BCA231351     ROHAN RENJITH     0     1     5       BCA231352     SAM ABRAHAM MATHEW     2.5     3.5     5       BCA231353     SANA SAJU     0     5     5       BCA231354     SHEETHAL FRANCIS CHITTILAPPILLY     5     5     5 <	BCA231340	KRISHNA B ARAVIND	5		and the second se
BCA231342     NAVAJITH C S     2     1.5     5       BCA231343     NIRANJAN VINOD     2     3.5     5       BCA231344     NITHIN JOY     1.5     3.5     5       BCA231344     NITHIN JOY     1.5     3.5     5       BCA231345     NIYA JUSTIN     2     1     5       BCA231346     NORAH VIN     2     1     5       BCA231347     NYJEL VINOY     3     2.5     5       BCA231348     POORNIMA UNNIKRISHNAN     3.5     3     5       BCA231349     RASHA FEBIN K     5     5     5       BCA231350     ROHAN MATHEW     2     2.5     5       BCA231351     ROHAN MATHEW     2.5     3.5     5       BCA231352     SAM ABRAHAM MATHEW     2.5     3.5     5       BCA231353     SANA SAJU     0     5     5       BCA231354     SHEETHAL FRANCIS CHITTILAPPILLY     5     5     5       BCA231355     SHINTO GEORGE     3.5     3     5	BCA231341	MESENTA MARTIN	5		
BCA231343     NIRANJAN VINOD     2     3.5     5       BCA231344     NITHIN JOY     1.5     3.5     5       BCA231344     NITHIN JOY     1.5     3.5     5       BCA231345     NIYA JUSTIN     2     1     5       BCA231346     NORAH VIN     5     4     5       BCA231347     NYJEL VINOY     3     2.5     5       BCA231348     POORNIMA UNNIKRISHNAN     3.5     3     5       BCA231349     RASHA FEBIN K     5     5     5       BCA231350     ROHAN MATHEW     2     2.5     5       BCA231351     ROHAN RENJITH     0     1     5       BCA231352     SAM ABRAHAM MATHEW     2.5     3.5     5       BCA231353     SANA SAJU     0     5     5       BCA231354     SHEETHAL FRANCIS CHITTILAPPILLY     5     5     5       BCA231355     SHINTO GEORGE     3.5     3.5     5       BCA231359     TOMS K ELDHOSE     3     2     5 </td <td>BCA231342</td> <td>NAVAJITH C S</td> <td>2</td> <td></td> <td></td>	BCA231342	NAVAJITH C S	2		
BCA231344     NITHIN JOY     1.5     3.5     5       BCA231345     NIYA JUSTIN     2     1     5       BCA231346     NORAH VIN     5     4     5       BCA231347     NYJEL VINOY     3     2.5     5       BCA231348     POORNIMA UNNIKRISHNAN     3.5     3     5       BCA231349     RASHA FEBIN K     5     5     5       BCA231350     ROHAN MATHEW     2     2.5     5       BCA231351     ROHAN RENJITH     0     1     5       BCA231352     SAM ABRAHAM MATHEW     2.5     3.5     5       BCA231353     SANA SAJU     0     5     5       BCA231354     SHEETHAL FRANCIS CHITTILAPPILLY     5     5     5       BCA231355     SHINTO GEORGE     3.5     3     5       BCA231356     SIDHARTH SHAJI     3.5     3.5     5       BCA231358     SREERAM PB     2.5     3.5     5       BCA231360     ZENITTA MARY ZINO     4.5     4     5	BCA231343	NIRANJAN VINOD	2	1	
BCA231345     NIYA JUSTIN     2     1     5       BCA231346     NORAH VIN     5     4     5       BCA231347     NYJEL VINOY     3     2.5     5       BCA231348     POORNIMA UNNIKRISHNAN     3.5     3     5       BCA231349     RASHA FEBIN K     5     5     5       BCA231350     ROHAN MATHEW     2     2.5     5       BCA231351     ROHAN RENJITH     0     1     5       BCA231352     SAM ABRAHAM MATHEW     2.5     3.5     5       BCA231353     SANA SAJU     0     5     5       BCA231354     SHEETHAL FRANCIS CHITTILAPPILLY     5     5     5       BCA231355     SHINTO GEORGE     3.5     3.5     5       BCA231356     SIDHARTH SHAJI     3.5     3.5     5       BCA231358     SREERAM PB     2.5     3.5     5       BCA231360     ZENITTA MARY ZINO     4.5     4     5       BCA231361     MADHAV N AJU     1.5     2.5     5 <td>BCA231344</td> <td>NITHIN JOY</td> <td>1.5</td> <td></td> <td></td>	BCA231344	NITHIN JOY	1.5		
BCA231346     NORAH VIN     5     4     5       BCA231347     NYJEL VINOY     3     2.5     5       BCA231348     POORNIMA UNNIKRISHNAN     3.5     3     5       BCA231349     RASHA FEBIN K     5     5     5       BCA231350     ROHAN MATHEW     2     2.5     5       BCA231351     ROHAN MATHEW     2     2.5     5       BCA231352     SAM ABRAHAM MATHEW     2.5     3.5     5       BCA231353     SANA SAJU     0     5     5       BCA231354     SHEETHAL FRANCIS CHITTILAPPILLY     5     5     5       BCA231355     SHINTO GEORGE     3.5     3.5     5       BCA231356     SIDHARTH SHAJI     3.5     3.5     5       BCA231359     TOMS K ELDHOSE     3     2     5       BCA231360     ZENITTA MARY ZINO     4.5     4     5       BCA231361     MADHAV N AJU     1.5     2.5     5       BCA231362     LIYANA V SHAMSUDHEEN     4.5     5	BCA231345	NIYA JUSTIN	2		
BCA231347     NYJEL VINOY     3     2.5     5       BCA231348     POORNIMA UNNIKRISHNAN     3.5     3     5       BCA231349     RASHA FEBIN K     5     5     5       BCA231350     ROHAN MATHEW     2     2.5     5       BCA231351     ROHAN MATHEW     2     2.5     5       BCA231351     ROHAN RENJITH     0     1     5       BCA231352     SAM ABRAHAM MATHEW     2.5     3.5     5       BCA231353     SANA SAJU     0     5     5       BCA231354     SHEETHAL FRANCIS CHITTILAPPILLY     5     5     5       BCA231355     SHINTO GEORGE     3.5     3     5       BCA231356     SIDHARTH SHAJI     3.5     3.5     5       BCA231358     SREERAM PB     2.5     3.5     5       BCA231359     TOMS K ELDHOSE     3     2     5       BCA231360     ZENITTA MARY ZINO     4.5     4     5       BCA231361     MADHAV N AJU     1.5     2.5 <t< td=""><td>BCA231346</td><td>NORAH VIN</td><td></td><td></td><td></td></t<>	BCA231346	NORAH VIN			
BCA231348     POORNIMA UNNIKRISHNAN     3.5     3     5       BCA231349     RASHA FEBIN K     5     5     5       BCA231350     ROHAN MATHEW     2     2.5     5       BCA231351     ROHAN MATHEW     2     2.5     5       BCA231351     ROHAN RENJITH     0     1     5       BCA231352     SAM ABRAHAM MATHEW     2.5     3.5     5       BCA231353     SANA SAJU     0     5     5       BCA231354     SHEETHAL FRANCIS CHITTILAPPILLY     5     5     5       BCA231355     SHINTO GEORGE     3.5     3     5       BCA231356     SIDHARTH SHAJI     3.5     3.5     5       BCA231358     SREERAM PB     2.5     3.5     5       BCA231359     TOMS K ELDHOSE     3     2     5       BCA231360     ZENITTA MARY ZINO     4.5     4     5       BCA231361     MADHAV N AJU     1.5     2.5     5       BCA231362     LIYANA V SHAMSUDHEEN     4.5     4	BCA231347	NYJEL VINOY		-	
BCA231349     RASHA FEBIN K     5     5       BCA231350     ROHAN MATHEW     2     2.5     5       BCA231350     ROHAN MATHEW     2     2.5     5       BCA231351     ROHAN RENJITH     0     1     5       BCA231352     SAM ABRAHAM MATHEW     2.5     3.5     5       BCA231353     SANA SAJU     0     5     5       BCA231354     SHEETHAL FRANCIS CHITTILAPPILLY     5     5     5       BCA231355     SHINTO GEORGE     3.5     3     5       BCA231356     SIDHARTH SHAJI     3.5     3.5     5       BCA231358     SREERAM PB     2.5     3.5     5       BCA231359     TOMS K ELDHOSE     3     2     5       BCA231360     ZENITTA MARY ZINO     4.5     4     5       BCA231361     MADHAV N AJU     1.5     2.5     5       BCA231362     LIYANA V SHAMSUDHEEN     4.5     4     5       BCA231363     MUHAMMED ALFAD T.L     5     5     5 </td <td>BCA231348</td> <td>POORNIMA UNNIKRISHNAN</td> <td></td> <td></td> <td></td>	BCA231348	POORNIMA UNNIKRISHNAN			
BCA231350     ROHAN MATHEW     2     2.5     5       BCA231351     ROHAN RENJITH     0     1     5       BCA231352     SAM ABRAHAM MATHEW     2.5     3.5     5       BCA231352     SAM ABRAHAM MATHEW     2.5     3.5     5       BCA231353     SANA SAJU     0     5     5       BCA231354     SHEETHAL FRANCIS CHITTILAPPILLY     5     5     5       BCA231355     SHINTO GEORGE     3.5     3     5       BCA231356     SIDHARTH SHAJI     3.5     3.5     5       BCA231358     SREERAM PB     2.5     3.5     5       BCA231359     TOMS K ELDHOSE     3     2     5       BCA231360     ZENITTA MARY ZINO     4.5     4     5       BCA231361     MADHAV N AJU     1.5     2.5     5       BCA231362     LIYANA V SHAMSUDHEEN     4.5     4     5       BCA231363     MUHAMMED ALFAD T.L     5     5     5       BCA231364     ADHITHYAN SURESH     4     3.	BCA231349	RASHA FEBIN K			the second s
BCA231351     ROHAN RENJITH     0     1     5       BCA231352     SAM ABRAHAM MATHEW     2.5     3.5     5       BCA231352     SAM ABRAHAM MATHEW     2.5     3.5     5       BCA231353     SANA SAJU     0     5     5       BCA231354     SHEETHAL FRANCIS CHITTILAPPILLY     5     5     5       BCA231355     SHINTO GEORGE     3.5     3     5       BCA231356     SIDHARTH SHAJI     3.5     3.5     5       BCA231358     SREERAM PB     2.5     3.5     5       BCA231359     TOMS K ELDHOSE     3     2     5       BCA231360     ZENITTA MARY ZINO     4.5     4     5       BCA231361     MADHAV N AJU     1.5     2.5     5       BCA231362     LIYANA V SHAMSUDHEEN     4.5     4     5       BCA231363     MUHAMMED ALFAD T.L     5     5     5       BCA231364     ADHITHYAN SURESH     4     3.5     5       BCA231365     ALAN GEORGE     4     4.5	BCA231350	ROHAN MATHEW		The second se	and the second se
BCA231352     SAM ABRAHAM MATHEW     2.5     3.5     5       BCA231353     SANA SAJU     0     5     5       BCA231354     SHEETHAL FRANCIS CHITTILAPPILLY     5     5     5       BCA231355     SHINTO GEORGE     3.5     3     5       BCA231356     SIDHARTH SHAJI     3.5     3.5     5       BCA231358     SREERAM PB     2.5     3.5     5       BCA231359     TOMS K ELDHOSE     3     2     5       BCA231360     ZENITTA MARY ZINO     4.5     4     5       BCA231361     MADHAV N AJU     1.5     2.5     5       BCA231362     LIYANA V SHAMSUDHEEN     4.5     4     5       BCA231363     MUHAMMED ALFAD T.L     5     5     5       BCA231364     ADHITHYAN SURESH     4     3.5     5       BCA231365     ALAN GEORGE     4     4.5     5	BCA231351	ROHAN RENJITH	+		
BCA231353SANA SAJU05BCA231354SHEETHAL FRANCIS CHITTILAPPILLY55BCA231355SHINTO GEORGE3.535BCA231356SIDHARTH SHAJI3.53.55BCA231358SREERAM PB2.53.55BCA231359TOMS K ELDHOSE325BCA231360ZENITTA MARY ZINO4.545BCA231361MADHAV N AJU1.52.55BCA231362LIYANA V SHAMSUDHEEN4.545BCA231364ADHITHYAN SURESH43.55BCA231365ALAN GEORGE44.55	BCA231352	SAM ABRAHAM MATHEW	2.5		the second s
BCA231354     SHEETHAL FRANCIS CHITTILAPPILLY     5     5       BCA231355     SHINTO GEORGE     3.5     3     5       BCA231356     SIDHARTH SHAJI     3.5     3.5     5       BCA231356     SIDHARTH SHAJI     3.5     3.5     5       BCA231358     SREERAM PB     2.5     3.5     5       BCA231359     TOMS K ELDHOSE     3     2     5       BCA231360     ZENITTA MARY ZINO     4.5     4     5       BCA231361     MADHAV N AJU     1.5     2.5     5       BCA231362     LIYANA V SHAMSUDHEEN     4.5     4     5       BCA231363     MUHAMMED ALFAD T.L     5     5     5       BCA231364     ADHITHYAN SURESH     4     3.5     5       BCA231365     ALAN GEORGE     4     4.5     5	BCA231353	SANA SAJU			
BCA231355     SHINTO GEORGE     3.5     3     5       BCA231356     SIDHARTH SHAJI     3.5     3.5     5       BCA231356     SIDHARTH SHAJI     3.5     3.5     5       BCA231358     SREERAM PB     2.5     3.5     5       BCA231359     TOMS K ELDHOSE     3     2     5       BCA231360     ZENITTA MARY ZINO     4.5     4     5       BCA231361     MADHAV N AJU     1.5     2.5     5       BCA231362     LIYANA V SHAMSUDHEEN     4.5     4     5       BCA231363     MUHAMMED ALFAD T.L     5     5     5       BCA231364     ADHITHYAN SURESH     4     3.5     5       BCA231365     ALAN GEORGE     4     4.5     5	BCA231354	SHEETHAL FRANCIS CHITTILAPPILLY		-	the second s
BCA231356     SIDHARTH SHAJI     3.5     3.5     5       BCA231358     SREERAM PB     2.5     3.5     5       BCA231359     TOMS K ELDHOSE     3     2     5       BCA231360     ZENITTA MARY ZINO     4.5     4     5       BCA231361     MADHAV N AJU     1.5     2.5     5       BCA231362     LIYANA V SHAMSUDHEEN     4.5     4     5       BCA231363     MUHAMMED ALFAD T.L     5     5     5       BCA231364     ADHITHYAN SURESH     4     3.5     5       BCA231365     ALAN GEORGE     4     4.5     5	BCA231355	SHINTO GEORGE			and the second
BCA231358     SREERAM PB     2.5     3.5     5       BCA231359     TOMS K ELDHOSE     3     2     5       BCA231360     ZENITTA MARY ZINO     4.5     4     5       BCA231361     MADHAV N AJU     1.5     2.5     5       BCA231362     LIYANA V SHAMSUDHEEN     4.5     4     5       BCA231363     MUHAMMED ALFAD T.L     5     5     5       BCA231364     ADHITHYAN SURESH     4     3.5     5       BCA231365     ALAN GEORGE     4     4.5     5	BCA231356	SIDHARTH SHAJI	3.5		teres and the state of the second
BCA231359     TOMS K ELDHOSE     3     2     5       BCA231360     ZENITTA MARY ZINO     4.5     4     5       BCA231360     ZENITTA MARY ZINO     4.5     4     5       BCA231361     MADHAV N AJU     1.5     2.5     5       BCA231362     LIYANA V SHAMSUDHEEN     4.5     4     5       BCA231363     MUHAMMED ALFAD T.L     5     5     5       BCA231364     ADHITHYAN SURESH     4     3.5     5       BCA231365     ALAN GEORGE     4     4.5     5	BCA231358	SREERAM PB			
BCA231360     ZENITTA MARY ZINO     4.5     4     5       BCA231361     MADHAV N AJU     1.5     2.5     5       BCA231362     LIYANA V SHAMSUDHEEN     4.5     4     5       BCA231363     MUHAMMED ALFAD T.L     5     5     5       BCA231364     ADHITHYAN SURESH     4     3.5     5       BCA231365     ALAN GEORGE     4     4.5     5	BCA231359	TOMS K ELDHOSE	3		
BCA231361     MADHAV N AJU     1.5     2.5     5       BCA231362     LIYANA V SHAMSUDHEEN     4.5     4     5       BCA231363     MUHAMMED ALFAD T.L     5     5     5       BCA231364     ADHITHYAN SURESH     4     3.5     5       BCA231365     ALAN GEORGE     4     4.5     5	BCA231360	ZENITTA MARY ZINO	4.5		
BCA231362     LIYANA V SHAMSUDHEEN     4.5     4     5       BCA231363     MUHAMMED ALFAD T.L     5     5     5       BCA231364     ADHITHYAN SURESH     4     3.5     5       BCA231365     ALAN GEORGE     4     4.5     5	BCA231361	MADHAV N AJU			
BCA231363     MUHAMMED ALFAD T.L     5     5     5       BCA231364     ADHITHYAN SURESH     4     3.5     5       BCA231365     ALAN GEORGE     4     4.5     5	BCA231362	LIYANA V SHAMSUDHEEN	the second second		
BCA231364     ADHITHYAN SURESH     4     3.5     5       BCA231365     ALAN GEORGE     4     4.5     5	BCA231363	MUHAMMED ALFAD T.L			Children and a state of the second state of the
BCA231365     ALAN GEORGE     4     4.5     5	BCA231364	ADHITHYAN SURESH	the second s		
	BCA231365	ALAN GEORGE	4		
BCA231367 VIDHU KRISHNAN 3 3 5	BCA231367	VIDHU KRISHNAN	3		and the second
BCA231368 JAZIM HASHIK 3 3.5 5	BCA231368	JAZIM HASHIK			
BCA231369     ARUNIMA RAJ     5     5     5	BCA231369	ARUNIMA RAJ			
BCA231370     MJ UDAY NANDAN     3     3     5	BCA231370	MJ UDAY NANDAN	and the second s	and the second	and the second
BCA231372     SOORAJ S NAIK     4     4.5     5	BCA231372	SOORAJ S NAIK		and the second	and the second

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	IAT1	IAT2	Assignment
Mean	3.68	3.68	2.65
Standard Deviation	1.27	0.99	0.62
Upper limit	4	4	4
Lower Limit	2	2	3

		ed for CO to PO Maj	
			1
Component	CO No.	CO Attainment Level	
IAT1	CO1	CO Attainment Level	
IAT2	CO2	3	
Assignment	CO3	3	

