

# K I. University

(Koneru Lakshmaiah Education Foundation)
Deemed to be University, Estd. u/s 3 of UGC Act, 1956

Accredited by NAAC as: A: Grade University & Approved by AICTE & ISC 9001-2008. Certified Campus: Greenfields, Vaddeswaram - 522 502, Guntur District, Andhra Pradesh, INDIA. Phone: +91-863-2399999 Fax: +91-863-2388999.

Admin Off: 29-36-38, Museum Road, Governorpet, Vijayawada - 520 002, Ph:+91-866-2577715, Fax. +91-866-2577717.

Date: 10-06-2015

# Department of Computer Applications

The 1st meeting of the BOS-BCA has been conducted on 10-06-2015 at 10:30 AM in the Computer Applications department, Room No. E003, K L University.

## The following members are present:

S. No.	Name	Designation	Signature
1	Dr. G. Vijay Kumar	Chairman	ej liga K
2	Dr. K. Tirupathi Rao	Member	Itras
3	Dr. Tirumala Rao	Member	Ulu
4	Dr. Sai Kiran	Member	Chry
5	Mr. Bapuji Rao	Member	Buran

## Resolutions:

To inculcate specializations like cloud technologies and information security in BCA-program design.

Dr. G. Vijay Kumar

Chairman BOS-BCA

Dr. G. VIJAY KUMAR BCA - NOD K L. University Vaddeswaram, Guntur Disc.



# K L University

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Admin Off; 29-36-38 Museum Road, Governorpet, Vijayawada - 520 802, Ph +91-866-2577715, Pax: +91-866-2577717

Date: 24-07-2015

# Department of Computer Applications

The 2<sup>nd</sup> meeting of the BOS-BCA has been conducted on 24-07-2015 at 9:30 AM in the Computer Applications department, Room No. E003, K L University.

## The following members are present:

S. No.	Name	Designation	Signature
1	Dr. G. Vijay Kumar	Chairman	Chinas
2	Dr. K. Tirupathi Rao	Member	RETROY +
3	Dr. Tirumala Rao	Member	Wh
4	Dr. Sai Kiran	Member	Jung
5	Mr. Bapuji Rao	Member	FaiRen

Dr.G.Vijay Kumar greeted the BOS members for the meeting. The chairman discussed the previous BOS meeting resolutions and their approvals in the Academic Counsil.

The Board of studies meeting of Computer Applications Department has ade the following resolutions.

- 1. Conformation of Previous Minutes of meeting
- 2. Approval of BCA program (as in the annexure-i) comprising of six semesters and a total of 135 credits.

Chairman BOS-BCA

Dr. G. VIJAY KUMAR
BCA - HOD
K L University
Vaddeswaram, Guntur Dist.



# K L University

(Koneru Lakshmaiah Education Foundation)
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Admin Off: 29-36-38, Museum Road, Governorpet, Vijayawada - 520 002, Phr+81-866-2577715, Fax: +91-866-2577717

Date: 12-07-2016

## Department of Computer Applications

The 3<sup>rd</sup> meeting of the BOS-BCA has been conducted on 12-07-2016 at 10:00 AM in the Computer Applications department, Room No. E003, K L University.

## The following members are present:

S. No.	Name	Designation	Signature
1	Dr. G. Vijay Kumar	Chairman	Mignety
2	Dr. K. Tirupathi Rao	Member	WIROS
3	Dr. Tirumala Rao	Member	icon
4	Dr. Sai Kiran	Member	Chun
5	Mr. Bapuji Rao	Member	BarRow
6	Mr. M. Sabari Giri Murugan	Member	Mederal

Dr.G.Vijay Kumar greeted the BOS members for the meeting. The chairman discussed the previous BOS meeting resolutions and their approvals in the Academic Council.

The Board of studies meeting of Computer Applications Department has ade the following resolutions.

- 1. Conformation of Previous Minutes of meeting
- 2. It has been approved by all the members to retain the current program structure for the 2016-17 admitted batch. The detailed structure is given in annexure-ii.
- 3. All recommendations of the DAC meeting held on 02-07-2016 are approved.

Dr. G. Vijay Kumar Chairman BOS-BCA

Dr. G. VIJAY KUMAR
BCA - HOD
K L University
Vaddeswaram, Guntur Dist.

ANNEXURE-1

# **Bachelor of Computer Applications**

2015-16

ıpping	Course Rationale		This course helps the learner to	know the importance of	speaking English in the global	scenario and the learners come	Provides study of the real	number system and its	subsystems, ancient and modern	numeration systems, problem-	solving and simple number	The course aims to deliver on	the concepts stated in the title:	biology, ecology and the	This course helps in developing	skills in basics of operating	system as MS-DOS and Window,	basic gates, and a beginning to	networking system	This course focuses on all the	basic concepts, syntax and	constructs of the C language	thus helping the students in	developing basic programming	This course provides an	intensely practical introduction	3
ith Course outcomes and program outcomes mapping	Course Type		New																								•
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Course Structure along wi	Course Title		Rudiments of	Communication	Skills		Fundamentals of	Mathematics				Ecology and	Environment		Computer	Fundamentals &	Computer	Organization	0	Programming in	, , ,				Linux	Programming	)
		Course Code	15EN1101				15MT1105					15GN1001			15CA1101					15CA1102				,	15CA1103		_
		SNo.	-				2					3	٠		4					5					9		•

Dr. G. VIJAY KUMAR BCA - HOD K L. University Vaddeswaram, Guntur Dist.

to Unix programming using Linux	and helps in developing skills in	System Administration	This course gives participants an	understanding of the factors	that contribute to effective	communication in a variety of	Expose students to the	fundamentals and concepts of	statistical and optimization	methods		This course helps in developing	skills in basics of operating	system as MS-DOS and Window,	basic gates, and a beginning to	The focus of the course is to	understand the underlying	technologies that make	contemporary operating	This course focuses on all the	basic concepts, syntax and	constructs of the JAVA language	thus helping the students in	developing basic programming	Helps students in develping skills	that help in Investigation of	techniques for program design,	testing, and debugging.		To be able to Implement English
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Dr. G. VIJAY KUMAR.
BCA - HOD
K L. University
Vaddeswaram, Guntur Dist.

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	gramar and a second	Seminar Tules Walle Writing or	Speaking; express or present,	elicit and record information for	This course helps in developing	skills in infrastructure facilitates	storage consolidation data	Sharing server climaterian 1981	Holps in devolucing at a	sicips in developing skills that	create practical, cost-effective	solutions to computing and	information processing	Provides practical experience in	installation and developing	like monitoring and developing skills	line monitoring, and	troubleshooting of current LAN	Helps in develoning skills like	database dovolonant and	garage developent and	יומוויבוומווכב			This course focuses on all the	basic concepts, syntax and	constructs of the web	programming thus helping the	tudents in development	To desire it developing pasic	o develop skills in Viviware	virtualization and virtual	machine software, including	server, desktop and network	This course focuses on the	development of the transferable
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Dr. G. VIJAY KUMAR BCA - HOD K L University Vaddeswaram, Guntur Dist.

15GN1002   Human Values   2-0-0   2   CO1   CO3	skills students need in job and life situation tasks. These skills	Inis course relates the concept of value education, identify and	fulfill the basic aspiration of	This subject on Information	Security Fundamentals it covers	the Business needs of	information security, the legal,	The course is to help students	mothodale SKIIIS in ethical hacking	illetifodology that can be used in	a penetration testing or ethical	ilackiilg situation	Achieving information security in	an electronic society requires a	vast array of technical Skill	Development	This course relates the concept	of history and evolution of classes	Computing It provide the	information about different	This course relates the concert	of skill development pullular	and Posicial and P	The designing the Data Center.	The topics provide the	This course helps in verbal	reasoning, quantitative	reasoning, critical thinking and	analytical writing skills Helps in devloping skills to
Human Values  Human Values  Security Fundamentals Fundamentals Fundamentals Fundamentals Fundamentals Fundamentals Fundamentals Fundamentals Oryptography Fundamentals Fundamentals Fundamentals of Cloud Technology Fundamentals of Security Fundamentals of Cloud Technology	CO3 CO4 CO1		4 CO1	502 2	-		4 CO1 2			2	CO5	4 CO1 2				2	TO   6								201				CO1 2
	Human Values		Information		Fundamentals		Ethical Hacking	Fundamentals				Cryptography	Fundamentals			Introduction to	Clond	T	l echnology	D 3	r undamentals of	Data Center		Т	Verbal and	Quantitative	Reasoning		Computer

K. G. VIJAY KUMAR BCA - HOD K. University Vaddeswaram, Guntur Dist.

	Describe the proper ways to	carry out an investigation in the	digital domain. – Describe kev	legislation applicable in and	The course starts with the	concepts of virtualization and	cloud and also covers skill	development and Claud County.	In today's professional world	every business required the	importance of IT and IS	Governances and the best	In Order to enable the childent to	learn features of Timis bernol	which includes the	der includes sien	cityii Oilii leiits, desktops,	applications, security, servers,	Windows Server 2008 R2	Foundation is an operating	system that enables core IT	resources, such as file and print	Aims at providing skills to	Examine and communicate the	ethical aspects of corporate	decisions regarding the relations	the organization holds with	This course relates the basic	understanding of server security	in wireless is very important for	any system administrator. As	Azure Web Services course is
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Jr. G. VÍJAÝ KUMAŘ BCA - HOD K.L. University Vaddeswaram, Guntur Dist.

intended to offer	comprehensive coverage of	designing and	developingservices that access	Helps in developing skills to	Identify the tools/network and	their functionalities to create	and test application/connectivity	, Summarize the procedures	Helps students in developing	ability to Apply technologies	learnt to real life situations,
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The Secretary South Park

# K L University

# **Department of Computer Applications**

# Minutes of the DAC meeting held on 02-07-2016

- 1. Analysing the feedback from students, course coordinators, parents and academic peers on curriculum(Annexure-I)
- 2. To discuss proposals to bring changes in the curriculum for the academic year 2016-17.

## Meeting attended by:

S. No.	Name	Designation	Signature
1	Dr. G. Vijay Kumar	HOD	es city ky
2	Dr. Sai Kiran	Assoc. Prof	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
3	Mr. Bapuji Rao	Asst Prof	Pari D.
4	Mr. M. Sabari Giri Murugan	Asst Prof	See la

### Conclusion:

1. It has been decided to recommend to BOS to retain the program structure (as in Annexure-II) of BCA for this academic year without any changes based on the feedback (Annexure-I) of the stake holders.

Dr. G. Vijay Kumar

**HOD-BCA** 

# Annexure-I

# **K L UNIVERSITY**

## DEPARTMENT OF COMPUTER APPLICATIONS

Report- Analysis of Feedback on curriculum – received from the stake holders prior to the commencement of the Academic Year <u>2016-17</u>

Feedback from different stake holders has been collected in respect of the curriculum offered for the academic year 2016-17

Serial Number	Type of Stake holder	Number of feedbacks
1	Students	17
2	Parents	3
3	Alumni	-
4	Faculty	From All the Course Coordinators (12)
5	Academic peers	3
6	Industry persons	4
	Total	39

Serial Number	Recommendations	Action
1. Stu	ident	
ı	Satisfied with curriculum. Retain the same.	•
2. Par	rents	
1	Provide more time for extra-curricular activities.	It has been decided to motivate students to take part in extra-curricular activities.
3. Alı	umni	
	Nil	
4. Fac	culty	1
1	No recommendations. Satisfied with the curriculum.	
5. Ac	ademic peers	
1	No recommendations	-
6. Inc	dustrial peers	
1	No recommendations. Satisfied with the curriculum.	σ.

USwild Professor incharge Gligay Kry.



ANNEXURE-II

# **Bachelor of Computer Applications**

2016-17

Course Structure along with Course outcomes and program outcomes mapping

		Course structure around with Course outcomes and program outcomes mapping	ועשוסו	2 W 15	ער בייים או	Outcome	שווס	Ugian	ב ה	מוועט ווומ	pping
		Course Title	c H		Course	Prograi	Program Outcomes (POs)	es (POs		Course Type	Course Rationale
			<u>}</u>	Credits	Outcomes						
SNo.	Course Code					a b c	de	f B	<u>۔</u>		
	15EN1101	Rudiments of	0-0-4	2	CO1	•	2		-X	Retained	This course helps the learner to
		Communication			C02		2	<u> </u>	5	without	know the importance of
		Skills			603		1		ט	changes	speaking English in the global
					CO4	-	7				scenario and the learners come
2	15MT1105	15MT1105 Fundamentals of	3-0-2	4	CO1	2			R	Retained	Provides study of the real
	***	Mathematics			C02	2			\$	without	number system and its
					c03	2		·	U	changes	subsystems, ancient and modern
			The Control of the Co		C04	2				·	numeration systems, problem-
					500	2					solving and simple number
3	15GN1001	Ecology and	2-0-0	2	CO1			Н	∞_	Retained	The course aims to deliver on
		Environment			C02			<del>-</del>	3	without	the concepts stated in the title:
					CO3			2	cl	changes	biology, ecology and the
4	15CA1101 Computer	Computer	3-0-2	4	CO1	1			R	Retained	This course helps in developing
		Fundamentals &			C02				3	without	skills in basics of operating
	*****	Computer			CO3	2			Ü	changes	system as MS-DOS and Window,
		Organization			C04	3					basic gates, and a beginning to
		)			502						networking system

Dr. G. VIJAY KUMAR Head of the Department

Dept. of Computer Applications Koneru Lakshmalah Education Foudation Vaddeswaram, Guntur Dist.

2 3 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	15CA1102 Programming in   2_2_2	Programming in	2.2	<u></u>	4	CO1	2					Retained	This course focuses on all the
3   Changes   Changes   Changes   S   Changes   Change						C02	2					without	basic concepts, syntax and
2			8	8	8	13		3				changes	constructs of the Clanguage
3   Retained   Retained   Without   2   Changes   2   Ch	004	8	8	8	8	4	2						thus helping the students in
2   Retained     2	COS	502	00	CO	S	١. ا		<u></u>					developing basic programming
1   1   without changes   2   changes   changes   2   changes	15CA1103 Linux   2_2_2   4 CO1	2_2_2   4	4		:00	1	2					Retained	This course provides an intensely
2   Changes	Programming		8	8	8	2		П				without	practical introduction to Unix
2         This course           2         This course           1         2         Rives           2         Participants           2         Participants           2         Participants           2         Participants           3         Retained           4         Participants           5         Participants           6         Participants           7         Participants           8         Participants           9         Participants           1         Participants           1         Participants           1         Participants           1         Participants           2         Participants           3         Participants           4         Participants           4         Participants           5         Participants           6         Participants           7         Participants           8         Participants           9         Participants           1         Participants           1         Participants           1         Participants <td>800</td> <td></td> <td>8</td> <td>8</td> <td>8</td> <td>33</td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td>changes</td> <td>programming using Linux and</td>	800		8	8	8	33	2					changes	programming using Linux and
2       This course         2       Rives         1       2       Participants         2       An       Aithout         2       Changes         3       Changes	3	5		8	ŏ	74	2						helps in developing skills in
1   2   7   1   1   1   1   1   1   1   1   1		<b>D</b>	D	Ö	ŭ	CO5	2						System Administration
2   8ives   2   2   2   2   3   3   3   3   3   3	15EN1202 Interpersonal 0-0-4 2 C	0-0-4 2	2	*	ŭ	01		\\	***************************************	2		This course	This course gives participants an
1         2         participants           1         2         an           2         without         without           2         changes         2           1         changes         changes           2         changes         changes           3         changes	nunication	nunication	Ö	Ö	ŭ	25				2		gives	understanding of the factors
1	Skills		Ö	Ö	ŭ	23				2		participants	that contribute to effective
1       Retained         2       without         2       changes         2       changes         1       kithout         2       kithout         3       kithout         4       kithout         5       kithout         6       kithout         7       kithout         8       kithout         1       kithout         2       kithout         3       kithout         4       kithout         5       kithout         6       kithout         7       kithout         8       kithout         1       kithout         1       kithout         2       kithout         3       kithout         4       kithout         5       kithout         6       kithout         7			Ö	Ö	ŏ	<b>7</b> 4				2		an	communication in a variety of
2       without         2       changes         2       changes         2       without         2       changes         2       changes         2       ketained         2       changes         2       changes         2       ketained         2       changes         2       kithout         2       kithout         2       kithout         2       kithout         3       ketained         3       ketained         4       ketained         5       ketained         6       ketained         7       ketained         8       ketained         1       kithout         2       ketained         3       ketained         4       ketained         5       ketained         6       ketained         7       ketained         8       ketained         1       ketained         1       ketained         2       ketained         3       ketained	15MT1208   Computer-   3-0-2   4   CC	Computer- 3-0-2 4	4	. ·	Ծ	)1	1					Retained	Expose students to the
2       changes         2       changes         1       2         2       without         2       changes         2       ketained         2       kithout         2       changes         2       changes         2       kithout         2       kithout         2       kithout         3       kithout         3       kithout         4       kithout         5       kithout         6       kithout         7       kithout         8       kithout         9       kithout         1       kithout         1       kithout         1       kithout         1       kithout         2       kithout         3       kithout	Oriented		8	8	ខ	)2	7					without	fundamentals and concepts of
2       Retained         1       Without         2       Without         2       Changes         2       Retained         2       Retained         2       Changes         2       Changes         2       Retained         2       Changes         3       Retained         3       Changes	Statistical		8	8	S	3	2					changes	statistical and optimization
1   Retained	Methods CO4		8	00	CO	4	2						methods
1   Retained     2   without     2     Changes     2     without     2     without     2     changes     3     1   without     3     1   without     4       without     5       without     6     1   without     7     without     8     1   without     9     1   without     1   without     3     Changes     4     Changes     5     Changes     6   Changes     7   Without     8   Changes     9   Changes     1   Without     1   Without     1   Without     1   Changes     1   C	500	00	သ	00	8	5						2	
2 without 2 changes 2 l changes 2 l ketained 2 l changes 3 changes	15CA1204 System 3-0-2 4 CO1	3-0-2 4	4		8	1						Retained	This course helps in developing
1   Changes	Configuration		8	8	8	2	7	7				without	skills in basics of operating
2 Retained	and Maintenance CO3		8  -	0	8	3						changes	system as MS-DOS and Window,
2 Retained 2 1 without 2 1 Changes 2 2 Retained 2 2 Retained 3 Changes	CO4	00	03	00	S	4	7						basic gates, and a beginning to
2 changes 2 1 changes 2 2 changes 2 2 changes 2 2 changes 3 changes	15CA1205   Operating System   3-0-2   4   CO1	3-0-2 4	4		8	1	2					Retained	The focus of the course is to
2         changes           2         Retained           2         without           3         changes	33		) 	ၓ	Ծ	)2		1				without	understand the underlying
2 Retained 1 without 2 changes	EO3	33	8	8	ဗ	33	17					changes	technologies that make
2 Retained 2 2 without 3 changes	<b>700</b>		8	8	8	4		1					contemporary operating systems
2 changes	15CA1206 Programming in   2_2_2   4   Cl	2_2_2 4	4		Ö	COI		ī				Retained	This course focuses on all the
2 changes					'	C02					₩	without	basic concepts, syntax and
3				O	U	503	2					changes	constructs of the JAVA language
			0	<u></u>	C	CO4	(1)						thus helping the students in

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ning	s skills	<u> </u>	sign,	·		nglish	gor		on for	ping	tates		AN-	hat	ive			ce in	skills		LAN	e)	•				Je		<del></del>
developing basic programming	Helps students in develping skills	that help in Investigation of	techniques for program design,	testing, and debugging.		To be able to Implement English	grammar rules while writing or	speaking; express or present,	elicit and record information for	This course helps in developing	skills in infrastructure facilitates	storage consolidation, data	sharing, server clustering, LAN-	Helps in developing skills that	create practical, cost-effective	solutions to computing and	information processing	Provides practical experience in	installation and developing skills	pring, and	troubleshooting of current LAN	Helps in developing skills like	database developent and	eo			This course focuses on all the		basic concepts, syntax and
developing	Helps stud	that help i	technique	testing, an		To be able	grammar r	speaking; 6	elicit and r	This course	skills in infi	storage co	sharing, se	Helps in d	create prac	solutions to	informatio	Provides pr	installation	like monitoring, and	troublesho	Helps in de	database d	maintenance			This course		basic conce
	Retained	without	changes			Retained	without	changes		Retained	without	changes		Retained	without	changes		Retained	without	changes		Retained	without	changes			Retained	:	without
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	4					7				4				4				4				4					4		
	2_2_2					0-0-4				4-0-0				3-0-2				3-0-2	:			2_2_2					2_2_2		
	Elementary Data	Structures using	U			Professional	Communication	Skills		Fundamentals of	Storage			Software	Engineering			Computer	Networks			RDBMS					Web		Technologies
	15CA1207					15EN2103				15CA2108				15CA2109				15CA2110				15CA2111					15CA2112		
	12					13				14				15		•		16				17					18		·

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	_				502		-			$\vdash$	3		students in developing basic web
19	15CA2113	Principles of	2-0-4	4	CO1		2					Retained	To develop skills in VMware
					C02			2				without	virtualization and virtual
					503						2	changes	machine software, including
					CO4						2		server, desktop and network
20	15EN2204	Employability	0-0-4	2	C01				2			Retained	This course focuses on the
		Skiils			CO2					2		without	development of the transferable
					603					<u> </u>	2	changes	skills students need in job and
					C04				·		2		life situation tasks. These skills
21	15GN1002	Human Values	2-0-0	2	C01					2		This course	This course relates the concept
				14.2 G	C02					7		relates the	of value education, identify and
		7. V			603					2		concept of	fulfill the basic aspiration of
22	15CA2214	Information	3_2_0	4	01		2					Retained	This subject on Information
		Security			C02	7						without	Security Fundamentals it covers
		Fundamentals			CO3	2	-	_			<u> </u>	changes	the Business needs of
					C04		2	-			<u> </u>		information security, the legal,
23	15CA2215	Ethical Hacking	2 2 2	4	CO1		2					Retained	The course is to help students to
					C02		2					without	master skills in ethical hacking
					co3					2	_	changes	methodology that can be used in
					C04		2				_	I	a penetration testing or ethical
					502		$\vdash$				8	1	hacking situation
24	15CA2216	Cryptography	3_2_0	4	C01	2						Retained	Achieving information security in
					202	2						without	an electronic society requires a
					803		7					changes	vast array of technical Skill
				1	C04		2						Development
25	15CA2217	Introduction to	2_2_2	4	CO1			2				Retained	This course relates the concept
		Clond			C02			2				without	of history and evolution of Cloud
		Technology			CO3			2				changes	Computing.It provide the
		3			8		-				3		information about different
26	15CA2218	Fundamentals of	3 2 0	4	001		7					Retained	This course relates the concept
					202		7					without	of skill development ,Building
					: CO3			2				changes	and Designing the Data Center.
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The topics provide the	This course helps in verbal	reasoning, quantitative	reasoning, critical thinking and	analytical writing skills	Helps in devloping skills to	Describe the proper ways to	carry out an investigation in the	digital domain. – Describe key	legislation applicable in and	The course starts with the	concepts of virtualization and	cloud and also covers skill	development and Cloud Security	In today's professional world,	every business required the	importance of IT and IS	Governances and the best	In order to enable the student to	learn features of Linux kernel	which includes shell	environments, desktops,	applications, security, servers,	Windows Server 2008 R2	Foundation is an operating	system that enables core IT	resources, such as file and print	Aims at providing skills to	Examine and communicate the	ethical aspects of corporate	decisions regarding the relations
	Retained	without	changes	•	Retained	without	changes			Retained	without	changes		Retained	without	changes		Retained	without	changes			Retained	without	changes		Retained	without	changes	
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	4-0-0				2_2_2					3_2_0				3_2_0	. :			2_2_2					2_2_2				0-0-4			
	Verbal and	Quantitative	Reasoning		Computer	Forensics – An	Introduction			Virtualization	and Cloud	Security		IT Governance,	Risk&	Information	Security	15CA3122 Server Operating	System - II				Server Operating	System - I			Corporate	Communication	Skills	
	15EN3105				15CA3119					15CA3120				15CA3121	•	<del> </del>		15CA3122					15CA3123				15EN3206 (		<b>4</b> 1	
	27				78					29				30		***		31					32				33		••••	·

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the organization holds with	This course relates the basic	understanding of server security	in wireless is very important for	any system administrator. As	Azure Web Services course is	intended to offer comprehensive	coverage of designing and	developingservices that access	local and remote data from	Helps in developing skills to	Identify the tools/network and	their functionalities to create	and test application/connectivity	, Summarize the procedures	Helps students in developing	ability to Apply technologies	learnt to real life situations,
	Retained	without	changes		Retained	without	changes			Retained	without	changes			Retained	without	changes
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	3_2_0				2_2_2								1. 1		0-0-18		\$. \$.
	15CA3224 Wireless and	VOIP	Security, Security	in Mobile	15CA3225 Introduction to	Windows Azure				Internship	4				15IE3050 Project and Viva- 0-0-18	Voce	
	15CA3224				15CA3225					15TE3049 Internship					15IE3050		
	34				35					36	1				37		

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