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KLE TECH. KLE Technological University Greating Value Levensing Knowledge	FORM ISO 9001: 2008	Document #: FMCD2005		Rev: 1.0
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Curriculum Structure with Content- Course wise (1st & 2nd	Year)		Year	2017-20

Curriculum Structure (2017-20)

I Semester MCA

SI.	Code	00.00	Course	Category	gory L-T-P Credits Co		ts Contact Hours		eory	La	b	Exam Duration
No.								ISA	ESA	ISA	ESA	
1	15ECAH701	Profession	onal Communication	HSC	4-0-0	4	4	50	50			3 hours
2	15ECAC703	Discrete	Mathematical Structures	PSC	4-0-0	4	4	50	50			3 hours
3	15ECAC709	Fundam	entals of Computer Organization	PSC	3-0-0	3	3	50	50	-		3 hours
4		1	Solving using C	PSC	3-0-0	3	3	50	50			3 hours
-	17ECAC701			PSC	3-0-0	3	3	50	50		-	3 hours
6	17ECAP701	C Progra	amming Lab.	PSC	0-0-1.5	1.5	3	-	-	100		3 hours
7	17ECAP702	Web Pro	ogramming Lab.	PSC	0-0-1.5	1.5	3		-	100		3 hours
8	17ECAP703	UNIX La	ab.	PSC	0-0-2	2	4	-	-	100		3 hours
				Total	17-0-5	22	27	250	250	300		

ISA: In Semester Assessment, ESA: End Semester Assessment, L: Lecture T: Tutorials P: Practical,

PSC: Program Scheme Core, HSC: Humanities Scheme Core, BS: Basic Science,

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Curriculum Structure with Content- Course wise (1st & 2nd	Year)	1	Year: 2017-20

II Semester - MCA

SI.	Code	Course	Category	L-T-P	Credits	Contact Hours	The	eory	La	ıb	Exam Duration
NO.							ISA	ESA	ISA	ESA	1 1
1	15ECAC704	Operating Systems	PSC	4-0-0	4	4	50	50	-	-	3 hours
2	15ECAC705	Object Oriented Programming in C++	PSC	3-0-0	3	3	50	50		-	3 hours
3	15ECAC706	Software Engineering	PSC	4-0-0	4	4	50	50			3 hours
4	17ECAC702	Data Structures with Applications	PSC	3-0-0	3	3	50	50			3 hours
5	17ECAC703	PHP Programming	PSC	3-0-1	4	5	50	50	100		3 hours
6	17ECAP704	C++ Programming Lab.	PSC	0-0-1.5	1.5	3			100	-	3 hours
7	17ECAP705	Data Structures Lab.	PSC	0-0-1.5	1.5	3	-		100	-	3 hours
8	17ECAP706	Mini Project -1	PSC	0-0-2	2	4		-	100	100	3 hours
		106	Total	17-0-6	23	29	250	250	400	100	

ISA: In Semester Assessment, ESA: End Semester Assessment, L: Lecture T: Tutorials P: Practical,

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Program: MASTER OF COMPUTER APPLICATIONS

Course Code: 17ECAC701

Course Title: Web Programming

L-T-P:3-0-0

Credits: 3

Contact Hrs: 3

ISA Marks:: 50

ESA Marks: 50

Total Marks: 100

Teaching Hrs: 42

Exam Duration: 3 Hours

No

Content

Hrs

Unit I

1 Chapter 1: Fundamentals of Web, XHTML

2Hrs

Internet, WWW, Web Browsers, and Web Servers; URLs; MIME; HTTP; The Web Programmers Toolbox. XHTML: Basic syntax; Standard structure; Basic text markup; Images; Hypertext Links; Lists.

Chapter 2: XHTML - 2, CSS

4 Hrs

XHTML (continued): Tables; Forms; Frames. CSS: Introduction; Levels of style sheets; Selector forms; Property value forms; Font properties; List properties; Color; Alignment of text; The box model; Background images; The and <div> tags.

Chapter 3: JavaScript

4 Hrs

Overview of JavaScript; Syntactic characteristics; Primitives, operations, and expressions; Screen output and keyboard input; Control statements; Object creation and modification; Arrays; Functions; Constructor; Pattern matching using regular expressions; Errors in scripts; Examples.

Chapter 4: JavaScript and HTML Documents, Dynamic Documents with JavaScript

6Hrs

The JavaScript execution environment; The Document Object Model; Element access in JavaScript; Events and event handling; Handling events from the Body elements, Button elements, Text box and Password elements; The DOM 2 event model; The navigator object. Introduction to dynamic documents; Element positioning; Moving elements; Element visibility; Changing colors and fonts; Dynamic content; Stacking elements; Locating the mouse cursor; Reacting to a mouse click; Slow movement of elements; and dropping elements.

Unit II

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Chapter 5: XML

Introduction; Syntax; Document structure; Document Type definitions; Namespaces; XML schemas; Displaying raw XML documents; Displaying XML documents with CSS; XSLT style sheets; XML processors; Web services.

Chapter 6: Perl, CGI Programming

Origins and uses of Perl; Scalars and their operations; Assignment statements and simple input and output; Control statements; Fundamentals of arrays; Hashes; References; Functions; Pattern matching; file input and output; Examples. The Common Gateway Interface; CGI linkage; Query string format; CGI.pm module; A survey example; Cookies.

Unit - III

Chapter 7: PHP

Origins and uses of PHP; Overview of PHP; General syntactic characteristics; Primitives, operations and expressions; Output; Control statements; Arrays; Functions; Pattern matching; Form handling; Files; Cookies; Session tracking.

Chapter 8: Database Access

Relational databases; Architectures for database access; MySQL; Database access with Perl and MySQL; Database access with PHP and MySQL.

Text Book:

1. Sebesta, R.W., Programming the World Wide Web, 3rd, Pearson education, 2006.(Chapters 1, 2, 3, 4, 5, 6, 8, 9, 10, 12, 14.1, 14.3 to 14.6)

References:

Deitel, P.J. and Goldberg, Internet & World Wide Web How to H program, 3rd, Pearson education, 2004.

Chris Bates, Web Programming Building Internet Applications, 3rd,

Wiley India, 2006.

Xue Bai et al The Web Warrior Guide to Web Programming, Thomson, 2003.

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excluded and covered in PHP course.

5 Hrs Removed
5 Hrs Removed

Evaluation Scheme

1. Assessment

Assessment	Theory
ISA- 1	25
ISA- 2	25
ESA	50
Total	100

2. End Semester Assessment (ESA) Pattern:

UNIT	8 Questions to be set of 20 Marks each	Chapter Nos.	Instructions
1	3 Questions to be set of 20 Marks Each	1, 2, 3, 4	Any 2 questions are to be answered
11	3 Questions to be set of 20 Marks Each	5,6	Any 2 questions are to be answered
III	2 Questions to be set of 20 Marks Each	7,8	Any 1 question is to be answered

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Program: MASTER OF COMPUTER APPLICATIONS

Course Code: 17ECAP702

Course Title: Web Programming Lab.

L-T-P:0-0-1.5

Credits: 1.5

Contact Hrs: 3

ISA Marks: 100

ESA Marks: --

Total Marks: 100

Teaching Hrs: 36

Exam Duration: 3 Hours

No

Content

Hrs

Unit I

Laboratory Section

Expt./ Job Vo.	Lab assignments/experiment	No. of Lab. Slots per batch (estimate)
Maries Transportation	Demonstration	
1-2	Web designing using all elements of HTML and HTML5.	02
3	Applying CSS and CSS3 to HTML pages	01
4-5	Client side scripting using JavaScript	02
	Exercises	No. Training
6-7	Exercise programs on Web designing using all elements of HTML and HTML5.	02
. 8	Exercise programs on Applying CSS and CSS3 to HTML pages	01
9-10	Exercise programs on Client side scripting using JavaScript	02
	Structured enquiry	
11	Develop a customized web based application.	. 02

Lab Practices integrated with theory course 18E(ACTO2.

Shuftured educing



Dear Students,	of Course C	Completio	on)		
Please give us your views on this Course so that the course quality can be imp constructive in your comments.	proved. You	are encou	raged to be	frank and	
	1	Course To	eacher		
Department/School MCA	1005 t	- L		, , , , , , , , , , , , , , , , , , ,	,
Name of the Teacher	4011		701		-
Department/SchoolMCAName of the TeacherA	Course co	ode: 17Ea	AC Semes	ter	
a. The design of the course	Strongly	Agree	Uncertain	Disagree	Strongly Disagree
The course objectives were clear	19.00				
The course contents met with your expectation		/			
The course work load was manageable	~~				
The lecture sequence was well planned to meet learning outcomes					
The contents were illustrated with adequate examples	/				
The course exposed you to new knowledge and practice		~			
The level of the course was moderate					
b. The conduct of the course	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
The lectures were easy to understand & ideas and concepts presented clearly				9	1
The teaching aids were effectively used	1				THE REW
The course material handed out was adequate					
Were objectives of the course realized?					
The overall environment in the class was conducive to learning					
c. Learning Resources	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
Learning materials (Lesson Plans, Course Notes etc.) were relevant and useful					
Recommended reading Books etc. were relevant and appropriate		~			
The provision of learning resources in the library was adequate and appropriate					#41 #1
	Strongly	Agree	Uncertain	Disagree	Strongly
d. Assessment	agree				Disagree
The method of assessment were reasonable					
Feedback on ISA assessment was timely					
Feedback on ISA assessment was helpful					
Suggestions for improvement:					
More lab exercises to be med	nded				
					40
Overall rating of the course: (tick mark the appropriate) 90% -100% 80% - 90% 70% - 80% 60% - 70% 50% - 60%	Be	low 50% [Sel	in the
Date: //2019				Signa	ture



Course Feedback

(To be filled by each Student at the time of Course Completion)

Dear Students,					
Please give us your views on this Course so that the course quality can be im	proved. You	are encou	uraged to be	frank and	1
constructive in your comments.					
		Course T	eacher	A.C.	
Department/SchoolName of the Teacher	Amit	k	, \		_
Course Title Kleb programming.	Course co	ode: 1760	CA Semes	ter <u>I</u> .	
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The course contents met with your expectation	1	-	-		+
The course work load was manageable	-	1		<u> </u>	+
The lecture sequence was well planned to meet learning outcomes	1	 	-		+
The contents were illustrated with adequate examples	V		-		
The course exposed you to new knowledge and practice	1			-	
The level of the course was moderate	*				
b. The conduct of the course	Strongly agree	Agree	Uncertain	Disagree :	Strongly Disagree
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d Accordant	Strongly	Agree	Uncertain	Disagree	Strongly
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Feedback on ISA assessment was timely		V			
	20	~			10
Suggestions for improvement:					
Feedback on ISA assessment was neiptur Suggestions for improvement: Assignments must be given topics.	in rel	even	ce to	the	
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90% -100% 86% - 90% 70% - 80% 60% - 70% 50% - 60% Date: //2019	Bek	ow 50%		Signat	ure
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Course Teacher Course Co	(To be filled by each Student at the time	of Course (Completi	on)		
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The method of assessment were reasonable Feedback on ISA assessment was timely Feedback on ISA assessment was helpful Iggestions for improvement: Company more on lead have cases with theirs Ishary implementation, Verall rating of the course: (/ tick mark the appropriate) Verall rating of the course: (/ tick mark the appropriate) Verall rating of the course: (/ tick mark the appropriate)	d Accessment	Strongly	Agree	Uncertain	Disagree	Strongly
Feedback on ISA assessment was timely Feedback on ISA assessment was helpful Iggestions for improvement: Emphasic more on Read Innu Nec Cases with theirs Library Implementation, Verall rating of the course: // tick mark the appropriate) %-160% 80%-90% 70%-80% 60%-70% 50%-60% Below 50%	u. Assaultens	agree		48.1	4	Disagree
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Course Feedback

(To be filled by each Student at the time of Course Completion)

onstructive in your comments.	19	Course T		A.	
epartment/SchoolMCAName of the Teacher	Amit	- K	·		_
ourse Title bels programming	Course co	ode:[<i>] [</i>	A Semest	ter	<u>P</u>
a. The design of the course	Strongly	Agree	Uncertain	Disagree	Strongly
The course objectives were clear		V			
The course contents met with your expectation	+	V			
The course work load was manageable	1	V			
The lecture sequence was well planned to meet learning outcomes					
The contents were illustrated with adequate examples	V	-			
The course exposed you to new knowledge and practice	-	V			
The level of the course was moderate					
		2 1 1			
b. The conduct of the course	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
The lectures were easy to understand & ideas and concepts presented clearly	1	V	- 1 - 1	a Signific	1554 1765
The teaching aids were effectively used	1 - 1				15. L.
The course material handed-out was adequate	1	V		1	* * * * * * * * * * * * * * * * * * * *
Were objectives of the course realized?				27. 246	1450 D
The overall environment in the class was conducive to learning					
be funder	B			The state of	14
c. Learning Resources	Strongly	Agree	Uncertain	Disagree	Strongly Disagree
Learning materials (Lesson Plans, Course Notes etc.) were relevant and useful		V		3	
Recommended reading Books etc. were relevant and appropriate	~				
The provision of learning resources in the library was adequate and appropriate	V	1, 2, 3	11-11-11-11-11-1	6	- 1 1-11-15 N
1			: 2	E T	
d. Assessment	Strongly	Agree	Uncertain	Disagnee	Strongly
The method of assessment were reasonable	agree			- 1	Disagree
Feedback on ISA assessment was timely	+ +		-		
Feedback on ISA assessment was helpful					
uggestions for improvement:					
Content of Bookstonp to be or	unde	.d.	·		
				11,1374	St. 2000 193
verall rating of the course: (√ tick mark the appropriate)					



Course Feedback

(To be filled by each Student at the time of Course Completion)

constructive in your comments.		Course	Teacher		
Department/School Mame of the Teacher	Amit	K.			
Department/School MCA Name of the Teacher Course Title Mcb pragramme	Course o	code:l <u>) 70</u>	<u> </u>	ester	P
a. The design of the course	Strongly	Agree	Uncertain	Disagree	Strongl
The course objectives were clear	V				
The course contents met with your expectation			1		
The course work load was manageable		+	-		
The lecture sequence was well planned to meet learning outcomes		-		+	-
The contents were illustrated with adequate examples			-	-	-
The course exposed you to new knowledge and practice			-		-
The level of the course was moderate			-		-
The rever of the course was moderate					
b. The conduct of the course	Strongly	Agree	Uncertain	Disagree	Strongly Disagree
The lectures were easy to understand & ideas and concepts presented clearly	1				
The teaching aids were effectively used		10			
The course material handed out was adequate					
Were objectives of the course realized?		1			
The overall environment in the class was conducive to learning					
c. Learning Resources	Strongly	Agree	Uncertain	Disagree	Strongly
	agree				Disagree
Learning materials (Lesson Plans, Course Notes etc.) were relevant and useful					
Recommended reading Books etc. were relevant and appropriate	~				
The provision of learning resources in the library was adequate and appropriate					
d. Assessment	Strongly	Agree	Uncertain	Disagree	Strongly
The method of assessment were reasonable	agree				Disagree
Feedback on ISA assessment was timely					
Feedback on ISA assessment was helpful uggestions for improvement:					
PHP programming to be included ocal time web application	d-to	deve	lop -	the_	
verall rating of the course: (√ tick mark the appropriate)					
1% -100%	Below	50%		Signatur	





Dear proud alumni,

The following are the list of skills and competencies that engineering graduates should have. We seek your participation in the Alumni Survey conducted to know your satisfaction with the *level of competency* you have achieved as á result of your education at the Institution and also able to practice the same. For each question, indicate your answer with symbol "A" in the appropriate column/box. All individual responses will be kept confidential. Only statistically analyzed results from the entire population will be shared.

Regards, Head of the department/School

S.No	Competencies	Level of Competency			
		Completely Dissatisfied	Dissatisfied	Satisfied	Completely Satisfied
1	Engineering knowledge :				
	Ability to apply the knowledge of mathematics, science, engineering fundamentals, and engineering specialization for the solution of engineering problems				
2	Problem analysis:		,		A
	Ability to identify, characterize and formulate a solution plan for solving engineering problems			A	,
	Ability to execute a solution process and analyse results			A	
3	Design/Development of Solutions:				
	Ability to design components, systems or processes that meet specified needs, following appropriate engineering design process			•	A
4	Conduct investigations of complex problems:				/)
	Ability to conduct investigations or tests through design of experiments to understand and solve engineering problems			A	
	Ability to critically analyse and interpret data to reach valid conclusions			A	
5	Modern tool usage:				
	Ability to identify / create and use appropriate modern engineering and IT tools, techniques and resources to solve engineering problems				A





6	The engineer and society:	cy i oi iii		
	Demonstrate an understanding of professional engineering regulations, legislation and standards			A
7	Environment and sustainability:			3
	Ability to understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development			A
8	Ethics:		•	
	Ability to apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice			, A
9	Individual and team work:			
	Ability to function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings		·A	
10	Communication:			
	Ability to comprehend technical literature and prepare effective reports and design documents			_
	Demonstrate competence in listening, speaking, and presentation			·A
11	Project management and finance:			
	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments		· A	
12	Life-long learning:			,
	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change	gggi to divine with an article with 1960 to without the divinitial distribution of the Constant		A
13	Modeling and Design			
14	An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.		•	. A
14	Construction of software system			
	An ability to apply design and development principles in the construction of software systems of varying complexity.			. A





indicate your Answer with symbol "A" in the appro	priate box.	,	
 How would you rate your overall satisfaction with your preparation to become an e 	ngineer?		
	Satisfied	A	
In general, the department has provided aquality academic program?			
Poor OK Good Very	Good	A	
Name:			
e-mailid: Sachin Navagouda Patil	Branch:	MCA	
e-mail id: Sachin p 9630 gmail. com	Batch:	M.CA 2015-16	
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Correspondence Address: Plot 00 6/0) 1/6 /6	1	:	
Wear 21 office, Bijapur.	039	balana	00
Signature: Sumus			





Dear proud alumni,

The following are the list of skills and competencies that engineering graduates should have. We seek your participation in the Alumni Survey conducted to know your satisfaction with the *level of competency* you have achieved as a result of your education at the Institution and also able to practice the same. For each question, indicate your answer with symbol "A" in the appropriate column/box. All individual responses will be kept confidential. Only statistically analyzed results from the entire population will be shared.

Regards,

Head of the department/School

S.No	Competencies	Level of Competency			
		Completely Dissatisfied	Dissatisfied	Satisfied	Completely Satisfier
1	Engineering knowledge :				,
	Ability to apply the knowledge of mathematics, science, engineering fundamentals, and engineering specialization for the solution of engineering problems				A
2	Problem analysis:				. / 1
	Ability to identify, characterize and formulate a solution plan for solving engineering problems				1
	Ability to execute a solution process and analyse results				A
3	Design/Development of Solutions:				
	Ability to design components, systems or processes that meet specified needs, following appropriate engineering design process		-		^
4	Conduct investigations of complex problems:				A
	Ability to conduct investigations or tests through design of experiments to understand and solve engineering problems Ability to critically analyse and interpret data to reach valid			A	
	conclusions			A	
	Modern tool usage: Ability to identify / create and use appropriate modern				,
	engineering and IT tools, techniques and resources to solve engineering problems				A





6	The engineer and society:	Cy roilli			
				:	
	Demonstrate an understanding of professional engineering regulations, legislation and standards				Δ
7	Environment and sustainability:				1
	Ability to understand the impact of the professional engineering				
	solutions in societal and environmental contexts and	J-			
	demonstrate the knowledge of, and need for sustainable				
8	development Ethics:				A
	Ability to apply ethical principles and commit to professional				
	ethics and responsibilities and norms of the engineering				
	practice				
9	Individual and team work:				A
	marvidual and team work:				
	Ability to function effectively as an individual, and as a member				
	or leader in diverse teams, and in multidisciplinary settings				
				· A	
10	Communication:			/)	
	Ability to come in				
	Ability to comprehend technical literature and prepare effective reports and design documents				
	reports and design documents			. ,	
	Demonstrate competence in listening, speaking, and			A	
	presentation			A	
11	Project management and finance:			- 1	
	Demonstrate knowledge and understanding of the engineering		-		
	and management principles and apply these to one's own work.				
	as a member and leader in a team, to manage projects and in				
	multidisciplinary environments	1	:		
12	Life-long learning:				A
	and long learning:				
	Recognize the need for, and have the preparation and ability to				
	engage in independent and life-long learning in the broadest				
13	context of technological change		A		
13	Modeling and Design				,
	An ability to apply mathematical foundations, algorithmic				
	principles, and computer science theory in the modeling and				
	design of computer-based systems in a way that demonstrates				
14	comprehension of the tradeoffs involved in design choices.			A	
.4	Construction of software system				
	An ability to apply design and development	-			
	An ability to apply design and development principles in the construction of software systems of varying complexity.			1	
	to fing complexity.			/-	





and the appropriate the approp	priate box.
 How would you rate your overall satisfaction with your preparation to become an er 	ngineer?
Not Satisfied Little Satisfied Satisfied A Very	Satisfied
In general, the department has provided a quality academic program?	
Poor OK Good A Very	Good
Name: Sandesh S. Gunda	Branch:
e-mail id: Sandeshas 3000 gmail com	Batch: 2015-16
onidPa-	
Correspondence Address:	**
Correspondence Address: # 24, 7th, Shanti dham, Mayuni Estate, &	Keshwapur, Hubli
Signature: Souls le	





Dear proud alumņi,

The following are the list of skills and competencies that engineering graduates should have. We seek your participation in the Alumni Survey conducted to know your satisfaction with the level of competency you have achieved as a result of your education at the Institution and also able to practice the same. For each question, indicate your answer with symbol "A" in the appropriate column/box. All individual responses will be kept confidential. Only statistically analyzed results from the entire population will be shared.

Regards,

Head of the department/School

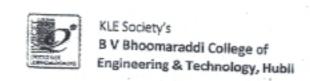
S.No	Competencies	Level of Competency			
		Completely Dissatisfied	Dissatisfied	Satisfied	Completely Satisfied
1	Engineering knowledge :				,
2	Ability to apply the knowledge of mathematics, science, engineering fundamentals, and engineering specialization for the solution of engineering problems			A	
_	Problem analysis:				,
	Ability to identify, characterize and formulate a solution plan for solving engineering problems				A
	Ability to execute a solution process and analyse results				^
3	Design/Development of Solutions:				H
	Ability to design components, systems or processes that meet				
	specified needs, following appropriate engineering design process				A
	Conduct investigations of complex problems:				
	Ability to conduct investigations or tests through design of				
	experiments to understand and solve engineering problems			A	
	Ability to critically analyse and interpret data to reach valid conclusions			2	
	Modern tool usage:			H	
	Ability to identify / create and use appropriate modern engineering and IT tools, techniques and resources to solve engineering problems				·A





6	The engineer and assist	vey Form		
1	The engineer and society:			
	Demonstrate an understanding of			
	Demonstrate an understanding of professional engineering regulations, legislation and standards			1 . 1
7				A
	Environment and sustainability:			-
	Ability to understand the impact of the professional engineering			
	solutions in societal and environmental contexts and			
	demonstrate the knowledge of, and need for sustainable			1 1
8	development			A
	Ethics:		-	
	Ability to apply othical principles			
	Ability to apply ethical principles and commit to professional			
	ethics and responsibilities and norms of the engineering practice			
	p. Garage			A
9	Individual and team work:			1 1
	The second work.			
	Ability to function effectively as an individual, and as a member			
	or leader in diverse teams, and in multidisciplinary settings			1
				A
10	Communication:			1
	Ability to any			
	Ability to comprehend technical literature and prepare effective reports and design documents			
	reports and design documents			1
	Demonstrate competence in listening, speaking, and			. 7
	presentation listening, speaking, and			. 0
11	Project management and finance:			H
	Demonstrate knowledge and understanding of the engineering			
	and management principles and apply these to one's own work,	1		
	as a member and leader in a team, to manage projects and in		12	
	multidisciplinary environments		·M	
12	Life-long learning:			
	Recognize the need for, and have the preparation and ability to			
	engage in independent and life-long learning in the broadest			^
13	context of technological change			A
13	Modeling and Design			-
	An ability to apply mathematical foundations, algorithmic			
	principles, and computer science theory in the modeling and			
	design of computer-based systems in a way that demonstrates			
	comprehension of the tradeoffs involved in design choices.			A
14	Construction of software system			17
	An ability of			
	An ability to apply design and development principles in the			0-
	construction of software systems of varying complexity.			41





Indicate your Answer with symbol "A" in the appropriate box. How would you rate your overall satisfaction with your preparation to become an engineer? Not Satisfied Little Satisfied Satisfied Very Satisfied In general, the department has provided a _ quality academic program? Poor OK Good Very Good Name: Branch: Clo Radhakryshna A Trabhu Correspondence Address: Show Krishna Nilay, Mahendrakar Chasol, Tc. Fark Thorwas, Kennataka Signature: Suggestions
Course on OS-Administration, delivering
Cenfiguration, maintance, gregolving problem alsolvates
With Berry, Application 6 SIN Should be offered





Dear proud alumni,

The following are the list of skills and competencies that engineering graduates should have. We seek your participation in the Alumni Survey conducted to know your satisfaction with the *level of competency* you have achieved as a result of your education at the Institution and also able to practice the same. For each question, indicate your answer with symbol "A" in the appropriate column/box. All individual responses will be kept confidential. Only statistically analyzed results from the entire population will be shared.

Regards, Head of the department/School

S.No	Competencies	Level of Competency			
		Completely Dissatisfied	Dissatisfied	Satisfied	Completely Satisfied
1	Engineering knowledge :				
	Ability to apply the knowledge of mathematics, science, engineering fundamentals, and engineering specialization for				
2	the solution of engineering problems				A
2	Problem analysis:				,
	Ability to identify, characterize and formulate a solution plan for solving engineering problems				А
	Ability to execute a solution process and analyse results				. / /
3	Design/Development of Solutions:				H
	Ability to design components, systems or processes that meet specified needs, following appropriate engineering design process			· A	
	Conduct investigations of complex problems:				
	Ability to conduct investigations or tests through design of				
	experiments to understand and solve engineering problems				· A
	Ability to critically analyse and interpret data to reach valid conclusions				A
	Modern tool usage:				
	Ability to identify / create and use appropriate modern engineering and IT tools, techniques and resources to solve engineering problems				





6	The engineer and society:					
	Demonstrate an understanding of professional engineering regulations, legislation and standards		Λ			
7	Environment and sustainability:		. <i>H</i>			
	Ability to understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development	A				
8	Ethics:					
	Ability to apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice	A				
9	Individual and team work:					
	Ability to function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings		A			
10	Communication:		- 11			
	Ability to comprehend technical literature and prepare effective reports and design documents	A				
	Demonstrate competence in listening, speaking, and presentation	A				
11	Project management and finance:					
	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments	. A				
12	Life-long learning:					
	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change	A				
13	Modeling and Design					
	An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.	A				
. 4	Construction of software system					
	An ability to apply design and development principles in the construction of software systems of varying complexity.	A				





1) How would you rate your overall satisfaction with your preparation to become an engineer? Not Satisfied Little Satisfied Satisfied A Very Satisfied 2) In general, the department has provided a quality academic program? Poor OK Good A Very Good Name: Sirish J. To Saniwal Branch: M.CA e-mail id: Sirish to Saniwal 9 & Email. Com. Batch: 2015 - 16. Name of the company: A CCenture. Correspondence Address: Jainday an To Saniwal H. No - 48/8 m., Shiva nath building	indicate your Answer with symbol "A" in the appropriate box.
Name: Sirish J. To Saniwal e-mail id: Sirish to Saniwal a Common Accenture. Name of the company: Accenture. Correspondence Address: Jainday an To Saniwal H. No - 48/8 m., Shiva nath building Amad She thy Galli, Bagalkof Kas notaka,	 How would you rate your overall satisfaction with your preparation to become an engineer?
Name: Sirish J. To Saniwal e-mail id: Sirish to Saniwal q & Email. com Name of the company: A ccenture. Correspondence Address: Jainday an To Saniwal H. No - 48/8 m., Shiva nath building Amad Shetty Galli, Bagalkot- Karnataka	Satisfied Very Satisfied
Name: Sirish J. To Saniwal e-mail id: Sirish to Saniwal q & Email. com. Name of the company: Accepture. Correspondence Address: Jainday an To Saniwal H. No - 48/8 m., Shivanath building Amad Shetty Galli, Bagalkot Kasnataka	In general, the department has provided a quality academic program?
Dirish J. Tobaniwal e-mail id: Sirish tosaniwal q@&mail.com. Name of the company: Accenture. Correspondence Address: Jaindayan Tosaniwal H. No - 48/8 m., Shivanath building Amad Shetty Galli, Bagalkot Kasnataka.	Poor OK Good A Very Good
Dirish J. Tobaniwal e-mail id: Sirish tosaniwal q@&mail.com. Name of the company: Accenture. Correspondence Address: Jaindayan Tosaniwal H. No - 48/8 m., Shivanath building Amad Shetty Galli, Bagalkot Kasnataka.	Name: On
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Correspondence Address: Jainday an To Saniwal, H. No - 48/8 m., Shiva nath building, Amad Shetty Galli, Bagalkot- Karnataka,	Sirishtosaniwal a @ Smail com Batch: 2015-10
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Amad Shetty galli, Bagalkot Kas notaka,	H. No - 48/8 m., Shivanath building
Signature: Secretary	Amad Shetty galli, Bagalkol- Kas notaka,
	Signature: Skiely

Suggestions: Nil

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Form

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Training & Placement Cell

Document #: FMPL0504

Rev: 1.0

Title:Consolidated List of Feedback from Employers

Page 1 of 2

Academic Year - 2017-18

Name and Address of the Company / Organization

ACC Cements RMX Division, Accenture, Agaze Technologies, Akamai, Alten Calsoft Labs, Amagi, Amazon AWS, Applied Materials, Applied Systems, Cypress Cerium Materials. Systems, Deevia Dassault Semiconductors. Software, EMPLAY Analytics, Faurecia, Hexaware, Informatica, Infosys, INSZoom, Deevia Software, Juniper Networks, KPIT, Mercedes Benz R&D India, Prodapt(Off OneTrust, Microsoft, Campus), Promantia (Off Campus), Quest Global, Robert Bosch, Saankhya Labs(Off Campus), Sankalp-Prakalp, Shilpa Medicare(for BT), Siemens Healthcare, SLK Software(Off Campus), SONY, SOROCO, Subex, Tata Elxsi, Tata Motors, TCS, TEK systems, Toshiba, Vyuhgenics, Wipro

Suggestion Made

- Communication, Presentation, Articulation and Expression Skills needs improvement.
- Practical Applications of Concepts / more hands on required- students are more theoretical.
- Fundamentals/Basics must be improved.
- Students should not forget topics studied in earlier semesters.
- Programming Skills especially of Non-IT Students needs improvement.
- Mock Interviews important.
- Depth of Programming is required in CSE & E&C stream.
- Awareness of Latest Tech Trends in Industry – especially for CSE, E&C, EEE Students.
- Problem Solving & alternate solutions.
- 10. Projects Quality & Depth.
- Subject Depth in Favorite Subjects needs improvement.
- Logical Thinking needs improvement & more practice.
- More Engineering approach in Project implementation requiredespecially Mech Engineering Projects.
- Industry Visit & Internship important for Mech/Civil Engineering students.
- With respect to Projects Implementing change in requirements
 - is an important skill. Students need this skill improvement, especially
 CSE.
- 16. E&C students must have good C /

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Embedded C Programming & Data Structures knowledge.
 Students need to do more interesting projects.
 Students need to work on open source projects and use / contribute to Github.

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DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

Minutes of Pre-BoS meeting held on 12-03-2018

Employers feedback

- Practical Applications of concepts / more hands-on required.
- Students lack in programming fundamentals.
- Awareness of latest technological trends.

Teachers feedback

- 1. Introduce Machine learning with Python Course.
- IoT prerequisites hardware knowledge on microprocessors, microcontrollers and their architectures in FCO course.
- 3. Rename Problem Solving using C course as Problem Solving Techniques.
- 4. Introduce practice-based assignments for Software Engineering Course.
- 5. Web 2.0 technologies and tools are used in the industry for better design and efficient production.
- Experiential learning for basic networking and understanding the working principle of various communication protocols is to be considered.
- Implementation of Networking commands through network administration.
- 8. Web application development with Geo-Spatial information is gaining popularity.
- 9. Experiential learning with Cloud-based technology and tools.

Alumni feedback

- Hands-on with Big Data Analytics tools should be considered.
- Cyber Security is increasingly gaining popularity in today's IT world. Students should be sensitized with the knowledge of Cyber Security applications development and maintenance.
- Open-Source OS Administration involving configuration, maintenance, resolving problems associated with servers, applications and software should be offered.

Action Taken

- Course introduced to cover prerequisites for Block-Chain technology.
- Course offered on development of Web applications to deal with GIS data and to provide consolidation of information within Spatial and temporal context.
- Cloud technology tools like AWS, MS Azure, Google Cloud Platform introduced under Cloud Computing.
- 4. Decided to change syllabus and text book of Web Programming in order to teach the Web Programming concepts in depth and strengthen them. Further to introduce the course with 2-0-1 LTP model in order to make the course more practical oriented.
- Practice based assignments included on Hadoop, MapReduce, MongoDB, Pig, Hive tools of Big Data Analytics.
- 6. Pedagogy of Machine Learning revised according to the Coursera Andrew NG MOOC.
- Skills on Configuration, maintenance of open-source OS applications, resolving problems associated with servers offered through LINUX Administration.
- Introduced Cyber Security & Forensics course involving Cyber Security application development & maintenance.
- 9. To offer course to cover prerequisites for development of GIS based web applications.
- 10. Framework & tools-based Software development and operations approach for faster & easier development, deployment and maintenance of software applications is offered through DevOps course.

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Courses Added:

- 1. ASP .Net Lab 17ECAP901
- RESTful Web Services
- 3. 17ECAE903 Full Stack Development -MEAN
- Block Chain Technologies 18ECAE905
- 17ECAP904 Robotic Process Automation (Certification Course)
- 6. GIS Data Management
- 7. DevOps
- 8. LINUX Administration 19ECAE901

Courses Revised:

- 1. Cloud Computing 19ECAC801
- 2. Big Data Analytics 15ECAC901
- 3. Machine Learning 16ECAE906
- 4. Web Programming 18ECAC702

Members Present:

Dr.P.R.Patil, Dr. P.S. Hiremath, Dr. S.V.Seeri, Prof. S.K.Salimath, Prof. A.K. Chikaraddi, Prof. Sujata R.K., Prof. Deepa M., Prof. S.V.Budni, Prof. Amit V.K., Prof. Praveenkumar S.M., Prof. Nagaraj B.C

Date: 13 03 2018

Granson Added

HoD, MCA

HOD, MCA

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Minutes of BoS Meeting

Meeting Number: 04		Date: 13-04-2018								
Venue: Placement Cell	Board Room	Time: 10:00 a.m								
Agenda		Actions/Decisions	Person Responsible	Planned Date	Actual Date	Reasons				
1. Welcome & introduction of members	Amit Kachvimath	13-04-2018	13-04-2018							
curriculum content of V & VI semesters of MCA 2016-19 batch	Mitchel of can be used an introduced of the course incomprosed of the course incomprosed of the curries of the	Machine Learning with Python course. (Book by can be prescribed as text book. Oreilly series book ed for practices). IoT prerequisites hardware knowledge on cessors, microcontrollers and their architectures in rse. Learning course with L-T-P model 3-0-1 has been d as an elective course for the fifth semester. The cludes practices component using Python. uisite workshop for IoT would be conducted on cessors, microcontrollers and their architectures. culum content of V & VI semesters of MCA 2016-was approved with the above said decisions.								
curriculum content of III & IV semesters of	certification internal as Decisions: - The provof Internal of Internal curri	provision in the curriculum to tag online on for selected courses with some weightage in the ssessment. ision for online certification would be done as part assessment process for selected courses. culum content of III & IV semesters of MCA patch was approved with the above said decisions.								



4. Approval of	Suggestions:	HoD &
overall	- Rename Problem Solving using C course as Problem	Chairman, BoS
Curriculum	Solving Techniques.	
Structure (I to	- Implementation of Data Structures algorithms has to be	
VI semesters)	done using C++ instead of C.	
and content of I	- Introduce some practice-based assignments for the Software	
& II semesters of	Engineering course.	
MCA 2018-21	Decisions:	
batch.	- The course is renamed as Problem Solving Techniques to	
	focus on acquiring problem solving skills through	
	algorithms and pseudo code. The problems would be	
	implemented using C language.	
	- Data Structures algorithms would be implemented using	
	C++ language henceforth.	
	- Implementation of Software engineering course is done	
	through mini projects.	
	- The Curriculum Structure (I to VI semesters) and content of	
	I & II semesters of MCA 2018-21 batch was approved with	
	the above said decisions.	

Chaired by: Dr.Prakash R. Patil

Members Present: Mr. Srinivas Ramanujam, Mr. Sanjeev Bijapur, Dr. K. S. Shridhar, Ms. Jyotsna Mokashi, Dr. P.R. Patil,

Dr.P.S.Hiremath, Prof.S.V.Seeri, Prof. Sujata Kulkarni, Prof. S.V.Budni, Mr. Bahubali Chivate, Ms. Sahana.

Dr. Prakash R. Patil

Prof. & Head,

Dept of MCA, KLE Tech, Hubli.

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CHANGED SYLLABUS for 18 ECACTOD. Web Programming

KLE TECHL KLE Technology Creating Value Leveraging Knowleds		FORM ISO 9001: 2008	Document #: FMCD2005	Rev: 1.0
Department of	of Master of Computer	Applications		Page of Page 1 of 114
Curriculum Structure with Content-Course wise (3 nd Year)				Year: 2018-21

Curriculum Structure (2018-21)

I Semester MCA

SI.	Code	Course		Category	L-T-P	Credits	Contact Hours	Theory		Lab		Exam Duration	
			BARRES.					ISA	ESA	ISA	ESA		
1	15ECAH701	Professional Communication	12501 50	HSC	4-0-0	4	4	50	50		-	3 hours	
2	15ECAC703	Discrete Mathematical Structu	ıres	PSC	4-0-0	4	4	50	50		_	3 hours	
3	15ECAC701	Fundamentals of Computer Or	rganization	PSC	4-0-0	4	4	50	50	4		3 hours	
4	18ECAC701	Problem Solving Techniques	100 E	PSC	2-1-0	3	4	50	50		-	3 hours	
5	18ECAC702	Web Programming	38040 807	PSC	2-1-0	3	4	50	50		3944	3 hours	
6	17ECAP701	C Programming Lab.		PSC	0-0-1.5	1.5	3	-		100	-	3 hours	
7	17ECAP702	Web Programming Lab.		PSC	0-0-1.5	1.5	3	1	-	100		3 hours	
8	17ECAP703	UNIX Lab.		PSC	0-0-2	2	4	_		100	-	3 hours	
				Total	16-2-5	23	30	250	250	300			

ISA: In Semester Assessment, ESA: End Semester Assessment, L: Lecture T: Tutorials P: Practical,

PSC: Program Scheme Core, HSC: Humanities Scheme Core, BS: Basic Science,

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Curriculum Structure with Content-Course wise (3rd Year)

Year: 2018-21

Il Semester - MCA

SI. No.	Code	Course	Category	L-T-P	Credits	Contact Hours	Th	eory	ory Lab		Exam Duration
		100 100 100 100 100 100 100 100 100 100					ISA	ESA	ISA	ESA	
1	15ECAC704	Operating Systems	PSC	4-0-0	4	4	50	50			3 hours
2	18ECAC703	Object Oriented Programming in C++	PSC	2-1-0	3	4	50	50	_	-	3 hours
3	18ECAC705	Software Engineering	PSC	4-0-0	4	4	50	50	_		3 hours
4	18ECAC704	Data Structures with Applications	PSC	2-1-0	3	4	50	50		-	3 hours
5	17ECAC703	PHP Programming	PSC	3-0-1	4	5	50	50	100	_	3 hours
6	17ECAP704	C++ Programming Lab.	PSC	0-0-1.5	1.5	3	-		100		3 hours
7	17ECAP705	Data Structures Lab.	PSC	0-0-1.5	1.5	3	-	_	100		3 hours
8	18ECAP701	Software Engineering Lab.	PSC	0-0-2	2	4		-	100		3 hours
			Total	15-2-6	23	31	250	250	400		

ISA: In Semester Assessment, ESA: End Semester Assessment, L: Lecture T: Tutorials P: Practical,

PSC: Program Scheme Core, HSC: Humanities Scheme Core, BS: Basic Science,

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Course Code: 18ECAC702

Course Title: Web Programming

L-T-P:2-1-0

Credits: 3

Contact Hrs: 4

ISA Marks:: 50

ESA Marks: 50

Total Marks: 100

Teaching Hrs: 42

Exam Duration: 3 Hours

No

Content

Hrs

Unit I

1 Chapter 1: Introduction to HTML

4 Hrs

HTML Attributes, Styles in Tags, Current and Evolving Standard: HTML5, Headings, Paragraphs, Comments

2 Chapter 2: Organizing Information with List & Link

8 Hrs

Numbered Lists, Customizing Ordered Lists & Unordered Lists, Nesting Lists, Creating Links, Linking Local Pages Using Relative and Absolute Pathnames, Anatomy of a URL, Kinds of URLs, HTTP and Anonymous FTP.

3 Chapter 3: Formatting Text with HTML

4 Hrs

Character-Level Elements, Semantic HTML Tags, Font Properties, Quotations, Special Characters, Character Encoding

Unit II

5 Chapter 4: Structuring a Page with HTML5 Tables & Forms

6 Hrs

Cell Padding, Cell and Caption Alignment, Spanning Multiple Rows or Columns, Dynamic Overlays, Controlling Stacking, Creating Drop-Down Menus, Creating Form Controls, Access Keys, Displaying Updates with progress and meter

6 Chapter 5: Creating CSS with Images

10 Hrs

Creating Page-Level Styles, Contextual Selectors, Classes and IDs, Editing Styles with Developer Tools, The Box Model, Borders, Margins and Padding, Controlling Size and Element Display, Inline Images in HTML, Image Dimensions and Scaling, usemap Attribute, Image Etiquette, Integrating Multimedia: Video and Sound

Unit - III

7 Chapter 6: Using JavaScript and jQuery

5 Hrs

Overview of JavaScript, Syntactic characteristics, Primitives, operations and expressions, Control statements, Object creation and modification, Arrays, Functions, Constructor, Pattern matching using regular expressions, Errors in scripts, Getting Started with jQuery, Selecting Elements from the Document, Binding Events, Retrieving and Changing Style Sheet Properties, Special Effects.

8 Chapter 7: XML

5 Hrs

Document structure; Document Type definitions; Namespaces; XML schemas; Displaying raw XML documents; Displaying XML documents with CSS; XSLT style sheets; XML processors; Web services.

Text Book:

- Laura Lemay, Rafe colburn, jennifer Kyrnin, MASTERING HTML, CSS & Java Script Web Publishing, BPB publications, 2016.
- 2. Sebesta, R.W., Programming the World Wide Web, 3rd, Pearson education, 2013.

Evaluation Scheme

1. Assessment

Assessment Theory

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-
25
25
50
100

2. End Semester Assessment (ESA) Pattern:

JNIT	8 Questions to be set of 20 Marks each	Chapter Nos.	Instructions
1	3 Questions to be set of 20 Marks Each	1, 2, 3, 4	Any 2 questions are to be answered
H	3 Questions to be set of 20 Marks Each	5,6	Any 2 questions are to be answered
III	2 Questions to be set of 20 Marks Each	7,8	Any 1 question is to be answered

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18ECACTOR Web Programming.

Syllabus revised to interpolate Employee's feedback to strengthen the programming concepts with hands-on.