



**REVA**  
UNIVERSITY

Bengaluru, India



## Supporting Documents related to New courses\_2017-18

**Scheme of Instruction and Syllabus**  
**B.Tech – Electrical & Electronics Engineering**

**I Semester Physics Cycle**

S L	Course Code	Title of the Course	HC /SC /O E	Credit Pattern & Credit Value				CH	Teaching School/Dept.
				C	L	T	P		
1	BTEM15F1100	Engineering Mathematics - I	HC	4	3	1	0	5	Mathematics
2	BTEP15F1200	Engineering Physics	HC	3	2	1	0	4	Physics
3	BTCV15F1300	Elements of Civil Engineering	HC	3	2	1	0	4	Civil
4	BTME15F1400	Elements of Mechanical Engineering	HC	3	2	1	0	4	MECH
5	BTEE15F1500	Basic Electrical Engineering	HC	3	2	1	0	4	EEE
6	BTIC15F1600	Indian Constitution and Professional Ethics	FC	2	1	1	0	3	Law
7	BTCE17F1700	Technical English I	FC	2	1	1	0	3	Humanities
8	BTPL15F1800	Physics Lab	HC	2	1	0	1	3	Physics
9	BTEC15F1900	Basic Electrical Engineering lab	HC	2	1	0	1	3	EEE
<b>TOTAL CREDITS</b>				<b>24</b>	<b>15</b>	<b>7</b>	<b>2</b>	<b>33</b>	

**II Semester Chemistry Cycle**

S L	Course Code	Title of the Course	HC/ SC/ OE	Credit Pattern & Credit Value				CH	Teaching School/Dept.
				C	L	T	P		
1	BTEM15F2100	Engineering Mathematics – II	HC	4	3	1	0	5	Mathematics
2	BTEC15F2200	Engineering Chemistry	HC	3	2	1	0	4	Chemistry
3	BTBE15F2300	Basic Electronics Engineering	HC	3	2	1	0	4	ECE
4	BTCC15F2400	Computer Concepts & C Programming	HC	3	2	1	0	4	CSE
5	BTES15F2500	Environmental Sciences	FC	2	1	1	0	3	Civil
6	BTTC17F2600	Technical English II	FC	2	1	1	0	3	Humanities
7	BTED15F2700	Computer Aided Engineering Drawing	HC	4	2	0	2	6	MECH
8	BTCL15F2800	Engineering Chemistry Lab	HC	2	1	0	1	3	Chemistry
9	BTCP15F2900	Computer Concepts and C programming Lab	HC	2	1	0	1	3	CSE
<b>TOTAL CREDITS</b>				<b>25</b>	<b>15</b>	<b>6</b>	<b>4</b>	<b>35</b>	

### III Semester

<b>S L</b>	<b>Course Code</b>	<b>Title of the Course</b>	<b>HC/ SC/ OE</b>	<b>C</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>CH</b>
1	BTEE15F3100	Engineering Mathematics–III	HC	4	3	1	0	5
2	BTEE15F3200	Electrical Circuit Theory- I	HC	3	2	1	0	4
3	BTEE15F3300	Electrical & Electronic Instrumentation and Measurements	HC	3	2	1	0	4
4	BTEE15F3400	Electrical Power Generation	HC	4	3	1	0	5
5	BTEE15F3500	Analog Electronic Circuit Design	HC	3	2	1	0	4
6	BTEE15F3600	Digital Electronic Circuit Design	HC	3	2	1	0	4
7	BTEE15F3700	Analog Electronic Circuit Design Laboratory	HC	2	1	0	1	3
8	BTEE15F3800	Digital Electronic Circuit Design Laboratory	HC	2	1	0	1	3
<b>TOTAL CREDITS</b>				<b>24</b>	<b>16</b>	<b>6</b>	<b>2</b>	<b>32</b>

### IV Semester

<b>S L</b>	<b>Course Code</b>	<b>Title of the Course</b>	<b>HC/ SC/ OE</b>	<b>C</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>CH</b>
1	BTEE15F4100	Engineering Mathematics – IV	HC	4	3	1	0	5
2	BTEE15F4200	Electrical Circuit Theory- II	HC	3	2	1	0	4
3	BTEE15F4300	Electromagnetic Theory	HC	3	2	1	0	4
4	BTEE15F4400	Electrical Machines I	HC	3	2	1	0	4
5	BTEE15F4500	Microcontrollers and Applications	HC	3	2	1	0	4
6	BTEE15F4600	Power Electronics	HC	3	2	1	0	4
7	BTEE15F4700	Microcontroller Laboratory	HC	2	1	0	1	3
8	BTEE15F4800	Power Electronics Laboratory	HC	2	1	0	1	3
<b>TOTAL CREDITS</b>				<b>23</b>	<b>15</b>	<b>6</b>	<b>2</b>	<b>31</b>

### V Semester

S L	Course Code	Title of the Course	HC/SC/OE	C	L	T	P	CH
1	BTEE15F5100	Control Engineering	HC	3	2	1	0	4
2	BTEE15F5200	Transmission and Distribution	HC	4	3	1	0	5
3	BTEE15F5300	Signals and Systems	HC	3	2	1	0	4
4	BTEE15F5400	Electrical Machines II	HC	3	2	1	0	4
5	BTEE15F5501	Electrical Power Utilization	SC	4	3	1	0	5
	BTEE15F5502	Electrical Drives						
	BTEE15F5503	Digital system design using VHDL						
	BTEE15F5504	Computer Networks Concepts and Protocols						
6	BTEE15F5601	Design of Electrical Machines	SC	4	3	1	0	5
	BTEE15F5602	Advanced Power Electronics						
	BTEE15F5603	Programmable Logic Controllers						
	BTEE15F5604	Programming in Java						
7	BTEE15F5700	Electrical Machines Laboratory I	HC	2	1	0	1	3
8	BTEE15F5800	Electrical and Electronics Measurements Lab.	HC	2	1	0	1	3
<b>TOTAL CREDITS</b>				<b>25</b>	<b>17</b>	<b>6</b>	<b>2</b>	<b>33</b>

### VI Semester

S L	Course Code	Title of the Course	HC/SC/OE	C	L	T	P	CH
1	BTEE15F6100	Power System Analysis	HC	4	3	1	0	5
2	BTEE15F6200	High Voltage Engineering	HC	4	3	0	1	5
3	BTEE15F6300	Theory and Applications of Linear Integrated Circuits	HC	3	2	1	0	4
4	BTEE15F6401	Advanced Control Engineering	SC	3	2	1	0	4
	BTEE15F6402	Digital Relays						
	BTEE15F6403	Embedded systems and IOT						
	BTEE15F6404	Computer Organization and Architecture						
5	BTEE15F6501	Power System Planning and Reliability	SC	3	2	1	0	4
	BTEE15F6502	Modeling and Simulation of Electrical Machines						
	BTEE15F6503	Operation Research						
	BTEE15F6504	Web Programming						
6	BTEE15F6601	Smart grid	SC	4	3	1	0	5
	BTEE15F6602	Digital Signal Processing						
	BTEE15F6603	VLSI Circuits and Design						
	BTEE15F6604	Data Structures using C++						
7	BTEE15F6700	Electrical Machines Laboratory II	HC	2	1	0	1	3
8	BTEE15F6800	Control System Laboratory	HC	2	1	0	1	3
<b>TOTAL CREDITS</b>				<b>25</b>	<b>19</b>	<b>5</b>	<b>3</b>	<b>33</b>



### VII Semester

S L	Course Code	Title of the Course	HC/ SC/ OE	C	L	T	P	CH
1	BTEE15F7100	Computer Aided Power System Analysis and Stability	HC	4	3	1	0	5
2	BTEE15F7200	CAED	HC	4	3	1	0	5
3	BTEE15F7300	Project Phase I	HC	2	0	1	1	4
4	BTEE15F7401	Power System Protection	SC	4	3	1	0	5
	BTEE15F7402	HVDC						
	BTEE15F7403	Industrial Instrumentation and Automation						
	BTEE15F7404	Operating system						
5	BTEE15F7501	Testing and Commissioning of Electrical Equipment	SC	4	3	1	0	5
	BTEE15F7502	Electricity Regulations						
	BTEE15F7503	Non Conventional Energy Sources						
	BTEE15F7504	Fuzzy logic system						
6	-	Open Elective subject offered by other school	OE	4	3	1	0	5
7	BTEE15F7700	Relay and High Voltage Laboratory	HC	2	1	0	1	3
8	BTEE15F7800	Power System Simulation Laboratory	HC	2	1	0	1	3
<b>TOTAL CREDITS</b>				<b>26</b>	<b>17</b>	<b>6</b>	<b>3</b>	<b>35</b>

### VIII Semester

S L	Course Code	Title of the Course	HC/ SC/ OE	C	L	T	P	CH
1	BTEE15F8100	Project Phase II	HC	8	0	1	7	16
2	BTEE15F8201	Operation and Control of Power Systems	SC	4	3	1	0	5
	BTEE15F8202	Introduction to Flexible AC transmission system						
	BTEE15F8203	Estimation and Design of Electrical Installation						
	BTEE15F8204	Artificial Neural Network						
3	BTEE15F8301	Electrical Power Quality	SC	4	3	1	0	5
	BTEE15F8302	Electrical Distribution system						
	BTEE15F8303	Electrical Safety						
4	BTEE15F8401	Management & Entrepreneurship	SC	4	3	1	0	5
	BTEE15F8402	Electrical Energy Conservation						
	BTEE15F8403	Computer Control of Electric drives						
	BTEE15F8404	Trouble Shooting of Common Electrical Appliances						
<b>TOTAL CREDITS</b>				<b>20</b>	<b>9</b>	<b>4</b>	<b>7</b>	<b>31</b>

### Credit Distribution

SL.No	Semester	Credits				
		HC	FC	SC	OE	Total
1	I	20	04	-	-	24
2	II	21	04	-	-	25
3	III	24	-	-	-	24
4	IV	23	-	-	-	23
5	V	17	-	8	-	25
6	VI	15	-	10	-	25
7	VII	14	-	8	04	26
8	VIII	08	-	12	-	20
<b>Grand Total</b>		<b>142</b>	<b>08</b>	<b>38</b>	<b>04</b>	<b>192</b>

**M.Tech. (VLSI & Embedded Systems Full Time)**  
**Scheme of Instructions**  
**(effective from Academic Year 2017)**

**Eligibility:** B.E./B. Tech. In ECE/TE/EEE/CSE/ISE/ Instrumentation Technology/ Medical Electronics/ Electrical and Electronics Engineering/ M Sc in Electronics with a minimum of 45% (40% in case of candidates belonging to SC and ST) marks in aggregate of any recognized university/institution or any other qualification recognized as equivalent there to.

SI No	Course Code	Title of the Course	HC/ SC	Credit Pattern			
				L	T	P	Total
1	MT17VS101	Advanced Mathematics	HC	4	1	0	5
2	MT17VS102	CMOS VLSI Design	HC	4	0	1	5
3	MT17VS103	Advanced Embedded System Design	HC	4	0	1	5
4	MT17VS114	Advanced Digital System Design using Verilog	SC1	4	1	0	5
	MT17VS124	Semiconductor Device Modeling & Technology		4	1	0	5
	MT17VS134	Internet of Things- Practical Approach		4	1	0	5
5	MT17VS115	Unix/Linux Shell Scripting and Python Basics	SC2	4	1	0	5
	MT17VS125	SOC Design		4	1	0	
		<b>Total Credits</b>					<b>25</b>
1	MT17VS201	Design of Analog CMOS Integrated Circuits	HC	4	0	1	5
2	MT17VS202	Real Time Operating Systems	HC	4	0	1	5
3	MT17VS213	Low Power VLSI Design	SC3	4	1	0	5
	MT17VS223	VLSI for Signal Processing		4	1	0	
4	MT17VS214	High Speed VLSI Design	SC4	4	1	0	5
	MT17VS224	ASIC Design and Verification using SystemVerilog		4	1	0	
5	MT17VS215	MEMS	SC5	4	1	0	5
	MT17VS225	Advanced Computer Architecture		4	0	1	
		<b>Total Credits</b>					<b>25</b>

Sl No	Course Code	Title of the Course	HC/SC	Credit Pattern			
				L	T	P	Total
1	MT17VS301	MOOC / Swayam / Edx / Harvard / CM / Internship/Soft skill training	-	0	0	3	3
2	MT17VS302	Mini Project	HC	0	2	8	10
3	MT17VS303	Sports, Yoga, Music, Dance, Theatre	-	0	0	2	2
3	MT17VS313	MSP430	SC6	4	0	1	5
	MT17VS323	FPGA Based Embedded System Design		4	1	0	
	MT17VS333	Synthesis and optimization of Digital Circuits		4	1	0	
	MT17VS343	CMOS RF Circuit Design		4	1	0	
	MT17VS353	Advances in VLSI Design		4	1	0	
4	MT17VS314	Automotive Electronics System	OE	3	1	0	4
		<b>Total Credits</b>					<b>24</b>
<b>FOURTH SEMESTER</b>							
1	MT17VS401	Dissertation	HC	0	2	20	22
		<b>Total Credits</b>					<b>22</b>
	<b>Total Credits for four Semesters</b>						<b>96</b>

**Note:** HC = Hard Core; SC= Soft Core;

\*For all the courses which are not supported by lab component students have to build mini project and it has to be evaluated.

  
 Registrar  
 REVA University  
 Bengaluru - 560 064

**M Tech in Computer Science and Engineering (Full Time)**

**Scheme of Instruction for Academic Year 2017-19**

Sl. No	Course Code	Course Title	Course Type	Credit Pattern and Credit Value				No. of Hrs.
				L	T	P	Total	
<b>FIRST SEMESTER</b>								
1	MTCS17F1100	Advanced Database Management Systems	HC	4	0	1	5	6
2	MTCS17F1200	Cloud Computing	HC	4	0	1	5	6
3	MTCS17F1300	Machine Learning and Deep Learning	HC	4	1	0	5	6
4	MTCS17F1410	Advanced Web Technologies	SC	4	1	0	5	6
	MTCS17F1420	Advanced Storage Area Networks						
	MTCS17F1430	Statistical Data Modeling and Analysis						
5	MTCS17F1510	Image Processing	SC	4	1	0	5	6
	MTCS17F1520	Mobile Application development						
	MTCS17F1530	Agile Software Development						
6	MTCS17F1610	Python Programming	SC	4	1	0	5	6
	MTCS17F1620	Robotics						
	MTCS17F1630	Advanced Data Structures						
<b>Total Credits for the First Semester</b>							<b>30</b>	
<b>SECOND SEMESTER</b>								
1	MTCS17F2100	Principles of Algorithm Design (DAA)	HC	4	0	1	5	6
2	MTCS17F2200	Big Data and Analytics Using R	HC	4	0	1	5	6
3	MTCS17F2300	Internet of Things	HC	4	1	0	5	6
4	MTCS17F2410	Computer Network Engineering	SC	4	1	0	5	6
	MTCS17F2420	Research Methodology						
	MTCS17F2430	Open Source Cloud Computing Tools						
5	MTCS17F2510	Unix Operating System & Internals	SC	4	1	0	5	6
	MTCS17F2520	Cyber Security						
	MTCS17F2530	Advanced Java Programming						
6	MTCS17F2610	Parallel Computing and Programming	SC	4	1	0	5	6



	MTCS17F2620	Human Computer Interaction (UI/UX Design )							
	MTCS17F2630	Embedded Computing systems							
<b>Total Credits for the Second Semester</b>								<b>30</b>	
<b>THIRD SEMESTER</b>									
Sl. No	Course Code	Course Title	Course Type	Credit Pattern and Credit Value				No. of Hrs.	
1	MTCS17F3110	Text and Web Mining	SC	3	1	0	4	5	
	MTCS17F3120	Soft Computing							
	MTCS17F3130	Wireless Networks							
2	MTCS17F3200	Internet Computer and Applications	OE	3	1	0	4	5	
3	MTCS17F3300	Project Phase-1	HC	0	0	2	2	4	
4	MTDE17F3400	MOOCS / Internship	HC	-	-	-	3		
5	MTDE17F3500	Global Certification	HC	-	-	-	3		
<b>Total Credits for the Third Semester</b>								<b>16</b>	<b>34</b>
<b>FOURTH SEMESTER</b>									
1	MTCS17F4100	Project Phase-2 and Dissertation	HC	2	4	14	20	40	
<b>Total Credits for the Fourth Semester</b>								<b>20</b>	<b>40</b>
<b>Total Credits for all Four Semesters is 96.</b>									

  
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 Bengaluru - 560 064

## M Tech in Computer Science and Engineering (Part Time)

### Scheme of Instruction

Sl. No	Course Code	Title of the Course	Course Type	Credit Pattern				Hrs week
				L	T	P	Total	
<b>FIRST SEMESTER</b>								
1	MTCS17P1100	Advanced Database Management Systems	HC	4	0	1	5	6
2	MTCS17P1200	Cloud Computing	HC	4	0	1	5	6
3	MTCS17P1300	Machine Learning and Deep Learning	HC	4	1	0	5	6
<b>Total Credits for First Semester</b>							<b>15</b>	
<b>SECOND SEMESTER</b>								
1	MTCS17P2100	Principles of Algorithm Design (DAA)	HC	4	0	1	5	6
2	MTCS17P2200	Big Data and Analytics Using R	HC	4	0	1	5	6
3	MTCS17P2300	Internet of Things	HC	4	1	0	5	6
<b>Total Credits for Second Semester</b>							<b>15</b>	
<b>THIRD SEMESTER</b>								
1	MTCS17P3110	Advanced Web Technologies	SC	4	1	0	5	6
	MTCS17P3120	Advanced Storage Area Networks						
	MTCS17P3130	Statistical Data Modeling and Analysis						
2	MTCS17P3210	Image Processing	SC	4	1	0	5	6
	MTCS17P3220	Mobile Application development						
	MTCS17P3230	Agile Software Development						
3	MTCS17P3310	Python Programming	SC	4	1	0	5	6
	MTCS17P3320	Robotics						
	MTCS17P3340	Advanced Data Structures						
<b>Total Credits for Third Semester</b>							<b>15</b>	

Sl. No	Course Code	Title of the Course	Course Type	Credit Pattern				Hrs /WK.
				L	T	P	C	
<b>FOURTH SEMESTER</b>								
1	MTCS17P4110	Computer Network Engineering	SC	4	1	0	5	6
	MTCS17P4120	Research Methodology						
	MTCS17P4130	Open Source Cloud Computing Tools						
2	MTCS17P4210	Unix Operating System & Internals	SC	4	1	0	5	6
	MTCS17P4220	Cyber Security						
	MTCS17P4230	Advanced Java Programming						
3	MTCS17P4310	Parallel Computing and Programming	SC	4	1	0	5	6
	MTCS17P4320	Human Computer Interaction						
	MTCS17P4330	Embedded Computing						
<b>Total Credits for Fourth Semester</b>							<b>15</b>	
<b>FIFTH SEMESTER</b>								
1	MTCS17P5110	Text and Web Mining	SC	3	1	0	4	5
2	MTCS17P5120	Soft Computing						
3	MTCS17P5130	Wireless Networks						
4	MTCS17P5200	Open Elective:	OE	3	1	0	4	5
5	MTCS17P5300	Project Phase-1	HC	0	0	2	2	4
6	MTDE17F3400	MOOCS / Internship	HC	-	-	-	3	
7	MTDE17F3500	One Global Certification	HC	-	-	-	3	
<b>Total Credits for Fifth Semester</b>							<b>16</b>	
<b>SIXTH SEMESTER</b>								
1	MTCS17P6100	Project-Work Phase-2 and Dissertation	HC	2	4	14	20	40
<b>Total Credits Sixth Semester</b>							<b>20</b>	
<b>Total Credits for all Six Semesters :96</b>								

  
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# REVA UNIVERSITY SCHOOL OF ARCHITECTURE,

## B ARCH DEGREE PROGRAM

### SCHEME OF INSTRUCTION FOR FIRST BATCH (2016 to 2020) STUDENTS

#### FIRST SEMESTER

No	Course Code	Course Title	Type	L/S	T	P	Total Credits	
1	BR17AR101	Architectural Design – I	HC	4	0	2	6	SEE VV
2	BR17AR102	Building Construction materials – I	HC	2	-	2	4	SEE
3	BR17AR103	Architectural Graphics - I	HC	3	-	1	4	SEE
4	BR17AR104	History of Architecture - I	HC	1	-	1	2	SEE
5	BR17AR105	Fine Arts/Applied Arts - I	HC	-	-	2	2	SEE TW
6	BR17AR106	Structures – I	HC	2	-	1	3	SEE
7	BR17AR107	Communication Skills	FC	3	-	-	3	SEE
		<b>Total</b>		<b>15</b>	<b>0</b>	<b>9</b>	<b>24</b>	

#### SECOND SEMESTER

No	Course Code	Course Title	Type	L/S	T	P	Total credits	
1	BR17AR201	Architectural Design - II	HC	4	0	2	6	SEE VV
2	BR17AR202	Building Construction materials – II	HC	2	-	2	4	SEE
3	BR17AR203	Architectural Graphics- II	HC	3	-	1	4	SEE
4	BR17AR204	History of Architecture - II	HC	1	-	1	2	SEE
5	BR17AR205	Theory of Design - I	HC	3	-	-	3	SEE
6	BR17AR206	Structures – II	HC	2	-	1	3	SEE
7	BR17AR207	Fine Arts/Applied Arts - II	HC	-	-	2	2	SEE VV
8	BR17AR208	Art Appreciation & Photography	HC	2	-	-	2	SEE TW
		<b>Total</b>		<b>17</b>	<b>0</b>	<b>10</b>	<b>26</b>	

#### THIRD SEMESTER

No	Course Code	Course Title	Type	L/S	T	P	Total Credits	
1	BR17AR301	Architectural Design – III	HC	4	0	2	6	SEE VV
2	BR17AR302	Building Construction materials – III	HC	2	0	2	4	SEE
3	BR17AR303	Architectural Graphics–III	HC	2	0	1	3	SEE TW

4	BR17AR304	Theory of Design - II	HC	3	0	0	3	SEE
5	BR17AR305	Structures – III	HC	2	0	1	3	SEE VV
6	BR17AR306	Environment studies	FC	1	1	0	2	SEE TW
7	BR17AR307	Constitution of India	FC	2	0	0	2	SEE
8	BR17AR308	Vacation Assignment:	HC	0	0	2	2	SEE VV
	<b>SOFT CORE</b>	<b>Anyone to be chosen</b>	<b>History of Architecture: Hindu and Islamic</b>					
9a	BR17AR3091	South India	SC	4	0	0	4	SEE VV
9b	BR17AR3092	North India	SC	4	0	0	4	SEE VV
9c	BR17AR3093	South East Asia	SC	4	0	0	4	SEE VV
		<b>Total</b>		<b>20</b>	<b>1</b>	<b>8</b>	<b>29</b>	

#### FOURTH SEMESTER

No	Course Code	Course Title	Type	L/S	T	P	Total Credits	
1	BR17AR401	Architectural Design – IV	HC	4	0	2	6	SEE VV
2	BR17AR402	Building Construction Materials – IV	HC	2	0	2	4	SEE
3	BR17AR403	Climatology – I	HC	2	0	1	3	SEE TW
4	BR17AR404	Building Services – I	HC	2	0	0	2	SEE
5	BR17AR405	Structures – IV	HC	2	0	1	3	SEE VV
6	BR17AR406	Surveying and Leveling – I	HC	1	0	1	2	SEE
7	BR17AR407	Computers – I	HC	1	0	1	2	SEE TW
	<b>SOFT CORE</b>	<b>Anyone to be chosen</b>	<b>Contemporary Architecture</b>					
8a	BR17AR4081	India and rest of Asia	SC	4	0	0	4	SEE VV
8b	BR17AR4082	Europe & other countries	SC	4	0	0	4	SEE VV
8c	BR17AR4083	North and South America	SC	4	0	0	4	SEE VV
		<b>Total</b>		<b>18</b>	<b>0</b>	<b>8</b>	<b>26</b>	



**FIFTH SEMESTER -2016 BATCH**

No	Course Code	Course Title	Type	L : P : D			Total Credits	Contact Hours	Evaluation
1	BR17AR501	Architectural Design – V	HC	0	4	2	6	10	SEE VV
2	BR17AR502	Building Construction materials – V	HC	2	2	0	4	6	SEE
3	BR17AR503	Energy efficiency in Buildings	HC	1	1	0	3	3	SEE TW
4	BR17AR504	Building Services-II	HC	2	0	0	2	2	SEE
5	BR17AR505	Structures – V	HC	2	1	0	3	4	SEE VV
6	BR17AR506	Computers – II	HC	1	1		2	3	SEE TW
7	BR17AR507	Vacation Assignment/Study trip/Summer course	HC	0	0	0	2	0	SEE TW
<b>Soft Core - Contemporary Architecture (Any ONE to be Chosen from among the following )</b>									
8A	BR17AR5081	Vernacular Architecture	SC	4	0	0	4	4	SEE VV
8B	BR17AR5082	Conservation	SC	4	0	0	4	4	SEE VV
8C	BR17AR5083	Housing	SC	4	0	0	4	4	SEE VV
<b>Total Credits</b>							26	31	

**SIXTH SEMESTER -2016 BATCH**

No	Course Code	Course Title	Type	L : P : D			Total Credits	Contact Hours	Evaluation
1	BR17AR601	Architectural Design – VI	HC	0	4	2	6	10	SEE VV

2	BR17AR602	Building Construction, materials & Working Drawings	HC	2	2	0	4	6	SEE
3	BR17AR603	Estimation ,Costing and Specification	HC	3	0	0	3	3	SEE
4	BR17AR604	Building Services-III (Mechanical)	HC	3	0	0	3	3	SEE
5	BR17AR605	Structures – VI	HC	2	1	0	3	4	SEE VV
6	BR17AR606	Advanced computer aided design	HC	1	1	0	2	3	SEE TW
7	BR17AR607	Landscape Architecture	HC	1	1	0	2	3	SEE
8	BR17AR608	Architectural Research Writing	HC	3	1	0	4	4	SEE VV
<b>Total Credits</b>							<b>27</b>	<b>36</b>	

#### SEVENTH SEMESTER

No	Course Code	Course Title	Type	L : P : D			Total Credits	Contact Hours	Evaluation
1	BR17AR701	Architectural Design- VII	HC	4	0	4	10	8	SEE VV
2	BR17AR702	Professional Practice, Values & Ethics	HC	1	1	0	2	3	SEE
3	BR17AR703	Building Services-IV (Acoustics)	HC	3	0	0	3	3	SEE
4	BR17AR704	Interior Design	HC	0	1	1	2	3 (0:2:1)	SEE TW
<b>SOFT CORE(Any ONE to be Chosen from among the following )</b>									
5a	BR17AR7051	Urban planning	SC	3	0	0	3	3	SEE
5b	BR17AR7052	Urban Design	SC	3	0	0	3	3	SEE
<b>Choose ONE Open Elective Course – Swayam – Online Certification Course</b>									

6a	BR17AR7061	System design for sustainability	OE	4	0	0	4	4	Online Certification Course			
6b	BR17AR7062	Glass in buildings : Design and applications	OE	4	0	0	4	4				
6c	BR17AR7063	Integrated Waste Management for a Smart City	OE	4	0	0	4	4				
7	BR17AR707	Vacation Assignment /Study Trip/Summer Course	HC	2	0	0	2	0				
<b>Total Credits</b>										26	29	

#### EIGHTH SEMESTER

No	Course Code	Course Title	Type	L :P : D			Total Credits	Contact Hours	Evaluation			
1	BR17AR801	Professional Training – I	HC	0	20	4	16	(16 to 18weeks )	SEE VIVA			
<b>Total Credits</b>										<b>16</b>		

#### NINTH SEMESTER -2016 BATCH

No	Course Code	Course Title	Type	L :P : D			Total Credits	Contact Hours	Evaluation			
1	BR17AR901	Professional Training – II	HC	0	20	4	16	16 to 18 weeks	SEE VIVA			
<b>Total Credits</b>										<b>16</b>		

#### TENTH SEMESTER

No	Course Code	Course Title	Type	L :P : D			Total Credits	Contact Hours	Evaluation
1	BR17ARX01	Architectural Design Thesis	HC	4	0	12	22	16	SEE VIVA
2	BR17ARX02	Construction Management	HC	1	2	0	2	3	SEE

3	BR17ARX031	Architecture Journalism/	SC	1	2	0	2	3	SEE VV
4	BR17ARX032	Product design	SC	1	2	0	2	3	SEE VIVA
<b>Total Credits</b>							<b>26</b>	31	

**TOTAL CREDITS OF ALL 10 SEMESTERS = HC = 211; SC = 18; OE = 4; FC = 7; TOTAL= 240**

**Note-1: Example of Course Numbering Scheme for B. Arch Program**

**AR16F3930 – Hindu, Buddhist & Colonial Architecture – S E Asia**

BR	AR	16	F	3	9	30
Program code B Arch	Discipline Code - Architecture	Batch of Students	Full time candidate	3 <sup>rd</sup> Semester	Course number	Elective number

**Note-2: Subject Codes with expansion**

HC	Hard Core	SC	Soft Core	FC	Foundation Course	OE	Open elective
L	Lecture	S	Studio	T	Tutorial	P	Practical
	Drawing subjects	VV	Viva voce	SEE	Semester End Exam	TW	Term Work

  
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**BA- Journalism, English, Psychology (JEP) Program 2017**

Sl. No	Course Code	Title of the Course	HC/ SC/ CC	Credit Pattern			
				L	T	P	Total
<b>FIRST SEMESTER</b>							
1	17JE101	Language – II: K / H / AE	CC	3	1	0	4
2	17JE102	Communicative English – I	FC	2	0	2	4
3	17JE103	Indian Constitution and Human Rights	FC	2	1	1	4
4	17JE104	Journalism - I (Introduction to Media & Communication)	HC	2	1	1	4
5	17JE105	English Literature & Facets of Language - I	HC	3	0	1	4
6	17JE106	Psychology - I (Foundation of Psychology)	HC	2	1	1	4
		<b>Total Credits</b>		<b>14</b>	<b>4</b>	<b>6</b>	<b>24</b>
<b>SECOND SEMESTER</b>							
1	17JE201	Language – II: K / H / AE	CC	3	1	0	4
2	17JE202	Communicative English – II	FC	2	0	2	4
3	17JE203	Journalism - II (Reporting & Editing)	HC	2	1	1	4
4	17JE204	English Literature & Facets of Language - II	HC	3	0	1	4
5	17JE205	Psychology - II (Basic Psychological Process)	HC	2	1	1	4



6	17JE206	Internship / Practice / Club Activity	HC	0	0	4	4
		<b>Total Credits</b>		<b>12</b>	<b>3</b>	<b>9</b>	<b>24</b>
<b>THIRD SEMESTER</b>							
1	17JE301	Language – II – H/K/ AE	CC	3	1	0	4
2	17JE302	Disaster Management	FC	2	0	0	2
3	17JE303	Environmental	FC	1	0	1	2
4	17JE304	Journalism - III  (Audio-Visual	HC	2	1	1	4
5	17JE305	English Literature & Facets of Language - III	HC	3	0	1	4
6	17JE306	Psychology - III  (Developmental Psychology - I)	HC	2	1	1	4
7	17JE307	Media Studies  (For Non B.A. Students)	OE	2	1	1	4
		<b>Total Credits</b>		<b>15</b>	<b>4</b>	<b>5</b>	<b>24</b>
<b>FOURTH SEMESTER</b>							
1	17JE401	Language II – H/K/AE	CC	3	1	0	4
2	17JE402	Journalism – IV  (Fundamentals of Media Research)	HC	2	1	1	4
3	17JE403	American Literature and Facets of Language	HC	3	0	1	4
4	17JE404	Psychology - IV  (Developmental Psychology - II)	HC	2	1	1	4
5	17JE405	Minor Project	HC	0	0	4	4
6	17JE406	Internship / Practice / Club Activity	HC	0	0	4	4

		<b>Total Credits</b>		<b>10</b>	<b>3</b>	<b>11</b>	<b>24</b>
<b>FIFTH SEMESTER</b>							
1	17JE501	Journalism-V (Media Laws & Ethics)	HC	2	2	0	4
2	17JE512	Journalism-VI (A) (Advertising & Corporate Communication)	SC	2	0	2	4
3	17JE522	Journalism-VI (B) (Fundamentals of Photography)	SC				
4	17JE503	Indian Writings in English – I	HC	3	1	0	4
5	17JE504	European and Non-European Writings - I	HC	3	1	0	4
6	17JE505	Psychology – V (Industrial Psychology - I)	HC	2	1	1	4
7	17JE516	Psychology – VI (A) (Abnormal	SC				
8	17JE526	Psychology –VI (B) (Health Psychology - I)	SC	2	0	2	4
		<b>Total Credits</b>		<b>14</b>	<b>5</b>	<b>5</b>	<b>24</b>
<b>SIXTH SEMESTER</b>							
1	17JE601	Journalism-VII (Media Management)	HC	2	2	0	4
2	17JE612	Journalism-VIII (A) (New Media)	SC				
3	17JE622	Journalism-VIII (B) (Technology for Communication)	SC	2	0	2	4

4	17JE603	Indian Writings in English - I	HC	3	1	0	4
5	17JE604	European and Non-European Writings - I	HC	3	1	0	4
6	17JE605	Psychology – V (Industrial Psychology - II)	HC	2	1	1	4
7	17JE616	Psychology-VIII (A) (Abnormal Psychology - II)	SC	2	0	2	4
8	17JE626	Psychology-VIII (B) (Health Psychology - II)	SC				
		<b>Total Credits</b>		<b>14</b>	<b>5</b>	<b>5</b>	<b>24</b>
		<b>Total Credits of All Semesters</b>		<b>79</b>	<b>24</b>	<b>41</b>	<b>144</b>

  
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School of Computer Science & Applications  
**B. Sc (Research) Scheme 2017-2021**

**FIRST SEMESTER**

Sl. No	Code	Title	HC/SC/ FC	Credit Pattern			Credits	Working Hrs
				L	T	P		
1	BS17CB101	Mathematics	HC	3	1	0	4	5
2	BS17CB102	Programming in C	HC	4	0	0	4	4
3	BS17CB103	Linux Foundation	HC	2	1	1	4	6
4	BS17CB104	Digital Principles and Logic Design	HC	4	0	0	4	4
5	BS17CB105	Environmental Studies	FC	2	0	0	2	2
6	BS17CB106	C Programming Lab	HC	0	0	2	2	4
7	BS17CB107	Logic Design Lab	HC	0	0	2	2	4
<b>Total Credits</b>				<b>15</b>	<b>2</b>	<b>5</b>	<b>22</b>	<b>29</b>

## SECOND SEMESTER

Sl. No	Code	Title	HC /SC FC	Credit Pattern			Credits	Working Hrs
				L	T	P		
1	BS17CB201	Probability and Statistics	HC	3	1	0	4	5
2	BS17CB202	Computer Organization and Architecture	HC	4	0	0	4	4
3	BS17CB203	Data Structures using C	HC	4	0	0	4	4
4	BS17CB204	Advanced Linux	HC	4	0	0	4	4
5	BS17CB205	English for Technical Communications	HC	4	0	0	4	4
6	BS17CB206	Constitution of India & Professional Ethics	FC	2	0	0	2	2
7	BS17CB207	Data Structures Lab	HC	0	0	2	2	4
8	BS17CB208	Advanced Linux Lab	HC	0	0	2	2	4
<b>Total Credits</b>				<b>21</b>	<b>1</b>	<b>4</b>	<b>26</b>	<b>31</b>



Sl. No	Code	Title	HC/S C/ OE	Credit Pattern			Credits	Working Hrs
				L	T	P		
1	BS17CB301	Discrete Mathematical Structures with Graph Theory	HC	3	1	0	4	5
2	BS17CB302	Cloud Computing and Virtualization Foundation	HC	3	0	1	4	5
3	BS17CB303	OOP with C++	HC	4	0	0	4	4
4	BS17CB304	Operating Systems	HC	4	0	0	4	4
5	BS17CB305	Data Base Management System	HC	4	0	0	4	4
6	BS17CB306	Numerical Methods	HC	4	0	0	4	4
7	BS17CB307	Programming with C++ Lab	HC	0	0	2	2	4
8	BS17CB308	DBMS Lab	HC	0	0	2	2	4
<b>Total Credits</b>				<b>22</b>	<b>1</b>	<b>5</b>	<b>28</b>	<b>34</b>

### THIRD SEMESTER

Sl. No	Code	Title	HC/ SC	Credit Pattern			Credits	Working Hrs
				L	T	P		
1	BS17CB401	Operations Research	HC	3	1	0	4	5
2	BS17CB402	Cloud Computing Architecture and Design	HC	3	0	1	4	5
3	BS17CB403	Advanced Java Programming	HC	4	0	0	4	4
4	BS17CB404	Computer Networks	HC	3	0	1	4	5
5	BS17CB405	Design & Analysis of Algorithm	HC	4	0	0	4	4
6	BS17CB406	Data Warehousing & Data Mining	HC	4	0	0	4	4
7	BS17CB407	Design & Analysis of Algorithm Lab	HC	0	0	2	2	4
8	BS17CB408	Advanced Java Programming Lab	HC	0	0	2	2	4
<b>Total Credits</b>				<b>21</b>	<b>1</b>	<b>6</b>	<b>28</b>	<b>35</b>

## FOURTH SEMESTER

Sl. No	Code	Title	HC/SC	Credit Pattern			Credits	Working Hrs
				L	T	P		
1	BS17CB501	AWS & Azure Public Cloud Platforms	HC	2	1	0	3	4
2	BS17CB502	Big Data Analytics using Hadoop	HC	2	1	1	4	6
3	BS17CB503	Programming with Ruby & Python	HC	2	1	0	3	4
4	BS17CB504	Cloud Databases	HC	3	0	1	4	5
5	BS17CB515	Enterprise Resource Planning	SC	2	1	0	3	4
	BS17CB525	E-Commerce						
6	BS17CB516	Web Programming	SC	2	0	1	3	4
	BS17CB526	C# and .Net						
7	BS17CB505	AWS and Azure Public Cloud lab	HC	0	0	2	2	2
8	BS17CB506	Programming with Ruby & Python lab	HC	0	0	2	2	2
<b>Total Credits</b>				<b>13</b>	<b>4</b>	<b>7</b>	<b>24</b>	<b>31</b>

## **FIFTH SEMESTER**

Sl. No	Code	Title	HC/ SC	Credit Pattern			Credits	Working Hrs
				L	T	P		
1	BS17CB601	Automation Tools for Cloud Deployment	HC	2	1	1	4	6
2	BS17CB602	Building Private Cloud with Openstack	HC	2	1	0	3	4
3	BS17CB603	Big Data and Hadoop on AWS and Azure	HC	2	1	0	3	4
4	BS17CB604	Software Engineering	HC	4	0	0	4	4
5	BS17CB615	Entrepreneurship and Management	SC	2	1	0	3	4
	BS17CB625	Financial Engineering						
6	BS17CB616	Information Security and Cryptography	SC	2	1	0	3	4
	BS17CB626	Advanced Computer Networks						
7	BS17CB607	Big Data and Hadoop on AWS and Azure lab	HC	0	0	2	2	2
8	BS17CB608	Building Private Cloud with Openstack lab	HC	0	0	2	2	2
<b>Total Credits</b>				<b>14</b>	<b>5</b>	<b>5</b>	<b>24</b>	<b>30</b>

## SIXTH SEMESTER

Sl. No	Code	Title	HC/ SC/ OE	Credit Pattern			Credits	Working Hrs
				L	T	P		
1	BS17CB701	Deployment & Management of Private Cloud	HC	2	1	0	3	4
2	BS17CB702/ M18MS1010	Big Data Technologies on Google Cloud	HC	2	1	1	4	6
3	BS17CB703	DevOps	HC	2	1	0	3	4
4	BS17CB704	Project Work – Phase-1	HC	0	2	2	4	8
5	BS17CB715	Software Project Management	SC	2	1	0	3	4
	BS17CB725	Object Oriented Modeling and Design						
	BS17CB735/ M18MS1062	Advanced DBMS						
6		Open Elective	OE	4	0	0	4	4
7	BS17CB707	Deployment & Management of Private Cloud lab		0	0	2	2	2
8	BS17CB708	Devops lab		0	0	2	2	2
<b>Total Credits</b>				<b>12</b>	<b>6</b>	<b>7</b>	<b>25</b>	<b>34</b>

## SEVENTH SEMESTER –MODIFIED SCHEME

### Open Elective Courses offered to other Schools

Sl. No	Code	Title	HC/ SC	Credit Pattern			Credits	Working Hrs
				L	T	P		
1	BS17CB811	Cloud Storage using Open Stack Swift	SC	3	1	0	4	5
	BS17CB821/ M18MS2020	Linear Algebra						
2	BS17CB812	Wireless Sensor Networks and Internet of Things	SC	2	1	0	3	4
	BS17CB822/ M18MS2041	System Simulation and Modelling						
3	BS17CB803	Project Work– Phase-2	HC	0	4	4	8	16
<b>Total Credits</b>				<b>5</b>	<b>6</b>	<b>4</b>	<b>15</b>	<b>25</b>

### **EIGHTH SEMESTER – MODIFIED SCHEME**

Sl. No	Code	Title	HC/ SC/ OE	Credit Pattern			Credits	Working Hrs
				L	T	P		
1	BS17CB716	Fundamentals of Cloud Computing	OE	4	0	0	4	4
	BS17CB726	Basics of Data Analytics						

### Credit Summary

Semester	Credits
First	22
Second	26
Third	28
Fourth	28
Fifth	24
Sixth	24
Seventh	25
Eighth	15
Total	192

### Credit Distribution

Semester	Hard Core (HC)	Fundamental Core(FC)	Soft Core (SC)	Open Elective (OE)	Total Credits
I	20	2	-	-	22
II	24	2	-	-	26
III	28	-	-	-	28

<b>IV</b>	<b>28</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>28</b>
<b>V</b>	<b>18</b>	<b>-</b>	<b>6</b>	<b>-</b>	<b>24</b>
<b>VI</b>	<b>18</b>	<b>-</b>	<b>6</b>	<b>-</b>	<b>24</b>
<b>VII</b>	<b>18</b>	<b>-</b>	<b>3</b>	<b>4</b>	<b>25</b>
<b>VIII</b>	<b>08</b>	<b>-</b>	<b>7</b>	<b>-</b>	<b>15</b>
<b>Total Credits for Programme</b>					<b>192</b>

  
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**SCHEME OF  
INSTRUCTION**

**FIRST SEMESTER**

COURSE CODE	COURSE TITLE	HC/SC/ FC/OE	CREDITS			TOTAL
			L	T	P	
BA.LB16 1100	History-I (Indian History)	HC	3	1	0	4
BA.LB16 1200	Political Science-I	HC	3	1	0	4
BA.LB16 1300	Legal Writing and Legal Methods	HC	3	1	0	4
BA.LB16 1400	General English	FC	3	1	0	4
BA.LB16 1500	Sociology-I	HC	3	1	0	4
BA.LB16 1600	Economic Development in India	HC	3	1	0	4
<b>TOTAL</b>						<b>24</b>
<b>SECOND SEMESTER</b>						
BA.LB16 2100	History II – (European History)	HC	3	1	0	4
BA.LB16 2200	Political Science –II	HC	3	1	0	4
BA.LB16 2300	Legal and Constitutional History	HC	2	1	0	3
BA.LB16 2400	Sociology-II	HC	3	1	0	4
BA.LB16 2500	Economic Development and Policies in India	HC	3	1	0	4
BA.LB16 2600	Legal Language and Communication	HC	1	0	1	2
BA.LB16 2700	Communicative English	FC	2	1	0	3
<b>TOTAL</b>						<b>24</b>
<b>SUMMER INTERNSHIP: 4 WEEKS (to be evaluated in the III semester)</b>						

**THIRD SEMESTER**

BA.LB16 3100	Law of Torts including MV accident and Consumer Protection Laws	HC	3	1	0	4
BA.LB16 3200	Law of Crimes – I: Penal code	HC	3	1	0	4
BA.LB16 3300	Law of Contract – I	HC	3	1	0	4
BA.LB16 3400	Constitutional Law – I	HC	3	1	0	4

BA.LB16 3500	Political Science (International Relations)	HC	2	1	0	3
BA.LB16 3610	Foreign Language (French-I)	SC	2	1	0	3
BA.LB16 3620	German-I	SC	2	1	0	3
BA.LB16 3700	Summer Internship (Evaluation)*	HC	0	0	2	2
<b>TOTAL</b>						<b>24</b>
*Marks allocation for the report submission of summer training undertaken at the end of <b>II Semester</b> with a corporate Lawyer or Law Firm.						

#### FOURTH SEMESTER

BA.LB16 4100	Family Law – I	HC	3	1	0	4
BA.LB16 4200	Constitutional Law – II	HC	3	1	0	4
BA.LB16 4300	Law of Contract – II	HC	3	1	0	4
BA.LB16 4400	Jurisprudence – I	HC	3	1	0	4
BA.LB16 4500	International Business Law	HC	2	1	0	3
Soft Core Courses (Choose any ONE of the following)						
BA.LB16 4610	Foreign Language(French-II)	SC	2	1	0	3
BA.LB16 4620	German-II	SC	2	1	0	3
BA.LB164700	Moot Court	HC	0	0	2	2
<b>TOTAL</b>						<b>24</b>
<b>SUMMER INTERNSHIP: 4 WEEKS (to be evaluated in the V Semester)</b>						

#### FIFTH SEMESTER

BA.LB16 5100	Administrative Law	HC	3	1	0	4
BA.LB16 5200	Labour and Industrial Law – I	HC	3	1	0	4
BA.LB16 5300	Family Law – II	HC	3	1	0	4
BA.LB16 5400	Company Law	HC	3	1	0	4
BA.LB16 5500	Public International Law	HC	3	1	0	4
BA.LB16 5600	Jurisprudence-II	HC	3	1	0	4

BA.LB16 5700	Summer Internship (Evaluation)*	HC	0	0	2	2
BA.LB16 5800	Moot Court	HC	0	0	2	2
		<b>TOTAL</b>				<b>28</b>

\*Marks allocation for the report submission of summer training undertaken at the end of **IV Semester** with a corporate Lawyer or Law Firm.

### SIXTH SEMESTER

BA.LB16 6100	Law of Crimes-II Criminal Procedure Code	HC	3	1	0	4
BA.LB16 6200	Environmental Studies and Environmental Law	HC	3	1	0	4
BA.LB16 6300	Civil Procedure Code and Limitation Act	HC	3	1	0	4
BA.LB16 6400	Investment and Competition Laws	HC	3	1	0	4
BA.LB16 6500	Labour and Industrial Law – II	HC	3	1	0	4

#### Soft Core Courses (choose any one):

BA.LB16 6610	Human Rights Law	SC	2	1	0	3
BA.LB16 6620	Cyber Law	SC	2	1	0	3
BA.LB16 6700	Moot Court	HC	0	0	2	2
		<b>TOTAL</b>				<b>25</b>

**SUMMER INTERNSHIP: 4 WEEKS (to be evaluated in the VII semester)**

### SEVENTH SEMESTER

BA.LB16 7100	Law of Evidence	HC	3	1	0	4
BA.LB16 7200	Property Law	HC	3	1	0	4
BA.LB16 7300	Professional Ethics and Professional Accounting System	HC	3	1	0	4
BA.LB16 7400	Client Interviewing Counseling & Advocacy Skills	HC	3	0	1	4
BA.LB16 7500	Taxation Law/Principles of Taxation (Direct Tax)	HC	3	1	0	4
BA.LB16 7600	Open Elective	OE	3	0	1	4
BA.LB16 7700	Summer Internship (Evaluation)*	HC	0	0	2	2

BA.LB16 7800	Moot Court	HC	0	0	2	2
		<b>TOTAL</b>				<b>28</b>

\*Marks allocation for the report submission of summer training undertaken at the end of **VI semester** with a corporate Lawyer or Law Firm.

\*OE = to be offered by School of Legal Studies

### **EIGHTH SEMESTER**

BA.LB16 8100	Public Administration	HC	3	1	0	4
BA.LB16 8200	Drafting Pleading and Conveyance	HC	3	1	0	4
BA.LB16 8300	Interpretation of Statutes	HC	3	1	0	4
BA.LB16 8400	Intellectual Property Law	HC	3	1	0	4
BA.LB16 8500	Moot Court	HC	0	0	2	2

**Soft Core Courses choose any two of the following:**

BA.LB16 8610	Women & Law	SC	2	1	0	3
BA.LB16 8620	Banking & Insurance Law	SC	2	1	0	3
BA.LB16 8630	Media Law	SC	2	1	0	3
BA.LB16 8640	Health Care Law	SC	2	1	0	3
		Total				<b>24</b>

**SUMMER INTERNSHIP: 4 WEEKS (to be evaluated in the IX semester)**

### **NINTH SEMESTER**

BA.LB16 9100	Alternate Dispute Resolution	HC	3	1	0	4
BA.LB16 9200	Indirect Tax Law	HC	3	1	0	4
BA.LB16 9300	International Trade Law	HC	3	1	0	4
BA.LB16 9400	Research Methodology (Presentation of Research Papers and Seminars)	HC	2	1	0	3

**Soft Core courses (choose any two):**

BA.LB169510	International Economic Law	SC	2	1	0	3
BA.LB16 9520	Air & space Law	SC	2	1	0	3

BA.LB16 9530	International Humanitarian and Refugee Law	SC	2	1	0	3
BA.LB16 9540	Criminology	SC	2	1	0	3
BA.LB16 9600	Summer Internship (Evaluation)*	HC	0	0	2	2
<b>TOTAL</b>						<b>23</b>
*Marks allocation for the report submission of summer training undertaken at the end of <b>IX Semester</b> with a corporate Lawyer or Law Firm.						

**TENTH SEMESTER**

BA.LB10 100	Dissertation	HC	0	0	16	16
		<b>TOTAL</b>				<b>16</b>

  
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**School of Computer Science and Applications**  
**MS in Computer Science2017**

**SCHEME OF INSTRUCTION**

**FIRST SEMESTER**

Sl. No	Code	Title	HC/SC/OE	Credit Pattern			Credits	Work ing Hours
				L	T	P		
1.	MS17CS101	Multivariable Calculus	HC	3	1	0	4	5
2.	MS17CS102	Object Oriented Programming with JAVA	HC	3	0	1	4	5
3.	MS17CS103	Data Mining and Knowledge Discovery	HC	3	1	0	4	5
4.	MS17CS104	Big Data Management	HC	3	0	1	4	5
5.	MS17CS105	Advanced Networks	HC	3	1	0	4	5
6.	MS17CS106	Probability & Statistics	HC	3	0	1	4	5
7.	MS17CS117	Distributed Algorithms Design	SC	3	1	0	4	5
	MS17CS127	Advanced Operating Systems						
	MS17CS137	Image Processing						
<b>Total Credits</b>				<b>21</b>	<b>4</b>	<b>3</b>	<b>28</b>	<b>35</b>

**SECOND SEMESTER**

Sl. No	Code	Title	HC/SC/OE	Credit Pattern			Credits	Work ing Hours
				L	T	P		
1.	MS17CS201	Machine Learning algorithms	HC	3	1	0	4	5
2.	MS17CS202	Data Analytics using Python	HC	3	0	1	4	5
3.	MS17CS203	Cloud Computing	HC	3	1	0	4	5
4.	MS17CS214	Introduction to Web Technologies	SC	3	0	1	4	5
	MS17CS224	System Modelling and Simulation						
	MS17CS234	Information Storage Management						
5.	MS17CS215	Big Data and NoSQL	SC	3	0	1	4	5
	MS17CS225	Social Network Analytics						
	MS17CS235	Internet of Things						
6.	MS17CS216	Pattern Recognition	SC	3	1	0	4	5
	MS17CS226	Bio-Informatics						
	MS17CS236	Natural Language Processing						
7.	MS17CS217	Big Data Security	SC	3	1	0	4	5
	MS17CS227	Deep Learning						
	MS17CS237	Data ware housing and Business Intelligence						
<b>Total Credits</b>				<b>21</b>	<b>4</b>	<b>3</b>	<b>28</b>	<b>35</b>

### THIRD SEMESTER

Sl. No	Code	Title	HC/SC/OE	Credit Pattern			Credits	Working Hours
				L	T	P		
1.	MS17CS301	Open Elective	OE	3	1	0	4	5
2.	MS17CS312	Mobile n/w and computing	SC	3	1	0	4	5
	MS17CS322	Object Oriented Software Engineering						
	MS17CS332	IT Security						
3.	MS17CS313	Multivariate Methods for Data Analysis	SC	3	1	0	4	5
	MS17CS323	Stochastic Decision Science						
	MS17CS333	Advanced Web Technologies						
4.	MS17CS304	Minor Project / Internship	HC	1	1	6	8	15
<b>Total Credits</b>				<b>10</b>	<b>3</b>	<b>6</b>	<b>20</b>	<b>25</b>

### FOURTH SEMESTER

Sl. No	Code	Title	HC/SC/OE	Credit Pattern			Credits	Working Hours
				L	T	P		
1.	MS17CS401	Project Work and Dissipation	HC	2	4	14	20	38
<b>Total Credits</b>				<b>2</b>	<b>4</b>	<b>14</b>	<b>20</b>	<b>38</b>

## Credit Summary

Semester	Hard Core (HC)	Fundamental Core (FC)	Soft Core (SC)	Open Elective (OE)	Total Credits
I	24	-	4	-	28
II	14	-	14	-	28
III	8	-	8	4	20
IV	20	-	-	-	20
<b>Total Credits for Programme</b>					<b>96</b>

  
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**REVA UNIVERSITY**  
**School of Arts & Humanities**  
**M.A. in English Programme (Scheme of Instruction)**

Sl. No	Course Code	Title of the Course	HC/SC /SE/OE	Credit Pattern			
				L	T	P	TOTAL
<b>FIRST SEMESTER</b> <b>(Introductory Hard Core Courses)</b>							
1	MA17EN101	Introduction to Textual Analysis	HC	1	1	2	4
2	MA17EN102	Introduction to Linguistics	HC	2	2	-	4
3	MA17EN103	English Literature – I (from Chaucer to the Augustans)	HC	4	-	-	4
4	MA17EN104	American Literature - I	HC	3	1	-	4
5	MA17EN105	Indian Writings in English - I	HC	3	1	-	4
6	MA17EN106	Advanced Communicative Skills	HC	1	1	2	4
<b>Total Credits</b>				<b>14</b>	<b>6</b>	<b>4</b>	<b>24</b>
<b>SECOND SEMESTER</b>							
1	MA17EN201	English Literature – II (from Romantic Age to 20 <sup>th</sup> century British Literature)	HC	4	-	-	4
2	MA17EN202	American Literature - II	HC	3	1	-	4
3	MA17EN203	Indian Writings in English - II	HC	3	1	-	4
4	MA17EN204	English Language Education	HC	2	1	1	4
5	MA17EN205	New Literatures in English	HC	3	1	-	4
6	MA17EN216	Critical Reading – Poet	SC	0	1	3	4
	MA17EN226	Critical Reading – Dramatist	SC				
	MA17EN236	Critical Reading - Novelist	SC				
<b>Total Credits</b>				<b>15</b>	<b>5</b>	<b>4</b>	<b>24</b>

<b>THIRD SEMESTER</b>			<b>HC/SC /SE/ OE</b>				
1	MA17EN301	Gender Studies	HC	3	1	-	4
2	MA17EN302	Critical Theories - I	HC	3	1	-	4
3	MA17EN303	Cultural Studies	HC	4	-	-	4
4	MA17EN314	Media Studies	SC	2	2	-	4
	MA17EN324	Film Studies	SC				
5	MA17EN315	English Language Teaching - I	SC	1	2	1	4
	MA17EN325	Sociolinguistics	SC				
6	MA17EN306	Biographies of Great Personalities (for students of non-M.A. English Programmes)	OE	1	2	1	4
		<b>Total Credits</b>		<b>14</b>	<b>8</b>	<b>2</b>	<b>24</b>
<b>FOURTH SEMESTER</b>			<b>HC/SC /SE/ OE</b>	<b>Credit Pattern</b>			
				<b>L</b>	<b>T</b>	<b>P</b>	<b>Total</b>
1	MA17EN401	Critical Theories - II	HC	3	1	-	4
2	MA17EN412	Literatures from India (In Translation)	SC	3	1	-	4
	MA17EN422	English Language Teaching - II	SC				
3	MA17EN403	Research Methodology	HC	3	1	-	4
4	MA17EN404	Skill Development	SD	-	1	3	4
5	MA17EN405	Minor Research Project	HC	-	2	6	8
		<b>Total Credits</b>		<b>9</b>	<b>6</b>	<b>9</b>	<b>24</b>
<b>Total Credits For Four Semesters</b>				<b>50</b>	<b>25</b>	<b>21</b>	<b>96</b>

**MASTER OF FINE ARTS  
(Bharatanatyam)**

**Scheme of Instruction for Academic Year 2017-19**

Sl. No	Course Code	Course Title	Course Type	Credit Pattern and Credit Value			No. of Hrs.	
				L	T	P	Total	Sessions
<b>FIRST SEMESTER</b>								
1	MFBN17F1100	Dance History	HC	4	0	0	4	4
2.	MFBN17F1200	English and Communications - I	HC	3	0	0	3	3
3.	MFBN17F1300	Fundamentals (Adavus, Alaripu, Jatiswaram) - Practical 1	HC	0	0	4	4	6
4.	MFBN17F1400	Items (Shabdham, Kriti) – Practical 2	HC	0	0	4	4	6
5.	MFBN17F1500	Slokas (Natya Sastram) – Practical 3	HC	4	0	0	4	4
6.	MFBN17F1600	Music Paper - 1 (Theory and practical)	HC	1	0	2	3	4
7.	MFBN17F1700	Kannada		2	0	0	2	2
		<b>Total Credits</b>					24	29
<b>SECOND SEMESTER</b>								
1	MFBN17F2100	Art History and Choreography	HC	4	0	0	4	4
2	MFBN17F2200	English and Communications II	HC	3	0	0	3	3
3	MFBN17F2300	Items (Varnam- Pada or Tana, Thillana) - Practical 1	HC	0	0	4	4	6
4	MFBN17F2400	Items (Javali, Padam) - Practical 2	HC	0	0	4	4	6
5	MFBN17F2500	Slokas (Abhinaya Darpanam) - Practical 3	HC	1	0	3	4	6
6	MFBN17F2600	Music Paper - 2 (Theory and Practical)	HC	1	0	2	3	4
7	MFBN17F2700	Sanskrit	HC	2	0	0	2	2
		<b>Total Credits</b>					24	29

THIRD SEMESTER								
1	MFBN17F3100	Aesthetics in Dance	HC	3	0	0	3	3
2	MFBN17F3200	Research Methodology	HC	3	0	0	3	3
3	MFBN17F3300	Arts Management	HC	3	0	0	3	3
4	MFBN17F3400	Items (Varnam – Daru or Swarajathi) - Practical 1	HC	0	0	3	3	5
5	MFBN17F3500	Individual Choreography - Practical 2	HC	0	0	3	3	5
6	MFBN17F3600	Slokas (Natya Sastra and Abhinaya Darpanam) - Practical 3	HC	1	0	2	3	4
7	MFBN17F3700	Telugu	HC	2	0	0	2	2
8	MFBN17F3830	Folk Dance	OE	2	0	2	4	5
9	MFBN17F3840	Classical Dance	OE					
<b>Total Credits</b>							24	30
FOURTH SEMESTER								
1	MFBN17F4100	Dance Writing and Biographies	HC	3	0	0	3	3
2	MFBN17F4200	Ashta Nayikas - Practical 1	HC	1	0	2	3	4
3	MFBN17F4300	Navarasas - Practical 2	HC	1	0	2	3	4
4	MFBN17F4400	Nattuvangam - Practical 3	HC	1	0	2	3	4
5	MFBN17F4500	Group Choreography	HC	0	0	4	4	6
6	MFBN17F4600	Field Trip & Dissertation	HC	0	0	8	8	-
<b>Total Credits</b>							24	21
<b>Total Credits of Four Semesters</b>							96	

**MASTER OF FINE ARTS (MFA)  
(Kuchipudi )**

**Scheme of Instruction for Academic Year 2017-19**

Sl. No	Course Code	Course Title	Course Type	Credit Pattern and Credit Value				No. of Hrs
				L	T	P	Total	
<b>FIRST SEMESTER</b>								
1.	MFKP17F1100	Dance History	HC	4	0	0	4	4
2.	MFKP17F1200	English & Communications- I	HC	3	0	0	3	3
3.	MFKP17F1300	Fundamentals –Kuchipudi - (Adugulu, Jathulu, Vinayaka Kouthvam, Jathiswaram) - Practical – 1	SC	0	0	4	4	6
4.	MFKP17F1400	Items – Kuchipudi - (Poorvarangam, Shabdham, Ramadasu/Annamacharya Keertana) - Practical – 2	SC	0	0	4	4	6
5.	MFKP17F1500	Slokas (Natya Sastram) - Practical – 3	HC	4	0	0	4	4
6.	MFKP17F1600	Music - 1 (Theory and practical)	HC	1	0	2	3	4
7.	MFKP17F1700	Kannada	HC	2	0	0	2	2
		Total Credits					24	29
<b>SECOND SEMESTER</b>								
1	MFKP17F2100	Art History and Choreography	HC	4	0	0	4	4
2	MFKP17F2200	English & Communications - II	HC	3	0	0	3	3
3	MFKP17F2300	Items- Kuchipudi- (Tarangam, Keertana / Kriti, Thillana) - Practical – 2	SC	0	0	4	4	6
4	MFKP17F2400	Items-Kuchipudi- (Ashtapadi, Javali, Padam) - Practical – 2	SC	0	0	4	4	6
5	MFKP17F2500	Slokas (Abhinaya Darpanam) -	HC	4	0	0	4	4
6	MFKP17F2600	Music – 2 (Theory and Practical)	HC	1	0	2	3	4
7	MFKP17F2700	Sanskrit	HC	2	0	0	2	2
		Total Credits					24	29
<b>THIRD SEMESTER</b>								
1	MFKP17F3100	Aesthetics in Dance	HC	3	0	0	3	3

2	MFKP17F3200	Research Methodology	HC	3	0	0	3	3
3	MFKP17F3300	Arts Management	HC	3	0	0	3	3
4	MFKP17F3400	Bhama Kalapam- Kuchipudi- Practical – 1	SC	0	0	3	3	5
5	MFKP17F3500	Individual Choreography - Practical – 2	HC	0	0	3	3	3
6	MFKP17F3600	Slokas (Natya sastra and Abhinaya Darpanam)	HC	1	0	2	3	4
7	MFKP17F3700	Telugu	HC	2	0	0	2	2
8	MFKP17F3810	Classical Dance	OE	2	0	2	4	5
9	MFKP17F3820	Mrudangam	OE					
10	MFKP17F3100	Dramatics	OE					
		Total Credits					24	28
<b>FOURTH SEMESTER</b>								
1	MFKP17F4100	Dance Writing and Biographies	HC	3	0	0	3	3
2	MFKP17F4200	Ashta Nayikas - Practical -1	HC	1	0	2	3	4
3	MFKP17F4300	Navarasas - Practical - 2	HC	1	0	2	3	4
4	MFKP17F4400	Nattuvangam - Practical – 3	HC	1	0	2	3	4
5	MFKP17F4500	Group Choreography	HC	0	0	4	4	6
6	MFKP17F4600	Field Trip & Dissertation	HC	0	0	8	8	-
		Total Credits					24	21
		Total Credits for Four Semesters					96	

  
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