



# MCKV INSTITUTE OF ENGINEERING

NAAC Accredited "A" Grade Autonomous Institute under UGC Act 1956  
 Approved by AICTE & affiliated to Maulana Abul Kalam Azad University of Technology, West Bengal  
 243 G.T. Road (N), Liluah, Howrah- 711204, West Bengal, India  
 Ph: +91 33 26549315/17 Fax +91 33 26549318 Web: www.mckvie.edu.in

## Curriculum Postgraduate Degree (M.Tech.) in Electronics and Communication Engineering (w.e.f. AY: 2020-21)

### Part II: Course Structure & Semester wise Credit Distribution

First Semester (First Year)							
Sl No.	Category	Course Code	Course Name	Contact Hours			Credits
				L	T	P	
<b>Theory</b>							
1	PC	PC-MCE101	Advanced Communication Networks	3	0	0	3
2	PC	PC-MCE102	Wireless and Mobile Communication	3	0	0	3
3	PE	PE-MCE101	Professional Elective-I	3	0	0	3
4	PE	PE-MCE102	Professional Elective-II	3	0	0	3
<i>Total Theory</i>				<b>12</b>	<b>0</b>	<b>0</b>	<b>12</b>
<b>Practical/ Sessional/ Mandatory Course</b>							
1	PC	PC-MCE191	Advanced Communication Networks Lab	0	0	4	2
2	PC	PC-MCE192	Wireless and Mobile Communication Lab	0	0	4	2
3	PW	PW-MCE171	Audit Course-I	2	0	0	0
4	MC	MC-MCE171	Research Methodology and IPR	2	0	0	2
<i>Total Practical/ Sessional/ Mandatory Course</i>				<b>4</b>	<b>0</b>	<b>8</b>	<b>6</b>
<b>Total of First Semester</b>				<b>16</b>	<b>0</b>	<b>8</b>	<b>18</b>

Second Semester (First Year)							
Sl No.	Category	Course Code	Course Name	Contact Hours			Credits
				L	T	P	
<b>Theory</b>							
1	PC	PC-MCE201	Antennas and Radiating Systems	3	0	0	3
2	PC	PC-MCE202	Advanced Digital Signal Processing	3	0	0	3
3	PE	PE-MCE201	Professional Elective-III	3	0	0	3
4	PE	PE-MCE202	Professional Elective-IV	3	0	0	3
<i>Total Theory</i>				<b>12</b>	<b>0</b>	<b>0</b>	<b>12</b>
<b>Practical/ Sessional/ Mandatory Course</b>							
1	PC	PC-MCE291	Antennas and Radiating Systems lab	0	0	4	2
2	PC	PC-MCE292	Advanced Digital Signal Processing Lab	0	0	4	2
3	PW	PW-MCE271	Audit Course-II	2	0	0	0
4	PW	PW-MCE281	Mini Project with Seminar	0	0	4	2



# MCKV INSTITUTE OF ENGINEERING

NAAC Accredited "A" Grade Autonomous Institute under UGC Act 1956  
 Approved by AICTE & affiliated to Maulana Abul Kalam Azad University of Technology, West Bengal  
 243 G.T. Road (N), Liluah, Howrah- 711204, West Bengal, India  
 Ph: +91 33 26549315/17 Fax +91 33 26549318 Web: www.mckvie.edu.in

<i>Total Practical/ Sessional/ Mandatory Course</i>	<b>2</b>	<b>0</b>	<b>12</b>	<b>6</b>
<b>Total of Second Semester</b>	<b>14</b>	<b>0</b>	<b>12</b>	<b>18</b>

Third Semester (Second Year)							
Sl No.	Category	Course Code	Course Name	Contact Hours			Credits
				L	T	P	
<b>Theory</b>							
1	PE	PE-MCE301	Professional Elective-V	3	0	0	3
2	OE	OE-MCE301	Open Elective	3	0	0	3
<i>Total Theory</i>				<b>6</b>	<b>0</b>	<b>0</b>	<b>6</b>
<b>Practical/ Sessional/ Mandatory Course</b>							
1	PW	PW-MCE381	Dissertation –I	<b>0</b>	<b>0</b>	<b>20</b>	<b>10</b>
<i>Total Practical/ Sessional/ Mandatory Course</i>				<b>0</b>	<b>0</b>	<b>20</b>	<b>10</b>
<b>Total of Third Semester</b>				<b>6</b>	<b>0</b>	<b>20</b>	<b>16</b>

Fourth Semester (Second Year)							
Sl No.	Category	Course Code	Course Name	Contact Hours			Credits
				L	T	P	
<b>Theory</b>							
<i>Total Theory</i>				<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Practical/ Sessional/ Mandatory Course</b>							
1	PW	PW-MCE481	Dissertation -II	<b>0</b>	<b>0</b>	<b>32</b>	<b>16</b>
<i>Total Practical/ Sessional/ Mandatory Course</i>				<b>0</b>	<b>0</b>	<b>32</b>	<b>16</b>
<b>Total of Fourth Semester</b>				<b>0</b>	<b>0</b>	<b>32</b>	<b>16</b>

**Total Credit Point of Program = 68**



# MCKV INSTITUTE OF ENGINEERING

NAAC Accredited "A" Grade Autonomous Institute under UGC Act 1956  
Approved by AICTE & affiliated to Maulana Abul Kalam Azad University of Technology, West Bengal  
243 G.T. Road (N), Liluah, Howrah- 711204, West Bengal, India  
Ph: +91 33 26549315/17 Fax +91 33 26549318 Web: www.mckvie.edu.in

List of Elective Courses	
<b>PE-MCE101</b>	<b>Professional Elective–I</b>
PE-MCE101A	Wireless Sensor Networks
PE-MCE101B	Optical Networks
PE-MCE101C	Statistical Information Processing
<b>PE-MCE102</b>	<b>Professional Elective–II</b>
PE-MCE102A	Cognitive Radio
PE-MCE102B	RF and Microwave Circuit Design
PE-MCE102C	DSP Architecture
<b>PE-MCE201</b>	<b>Professional Elective–III</b>
PE-MCE201A	Satellite Communication
PE-MCE201B	Internet of Things
PE-MCE201C	Voice and data networks
PE-MCE201D	Integrable circuits & Design
<b>PE-MCE202</b>	<b>Professional Elective–IV</b>
PE-MCE202A	Markov Chain and Queuing System
PE-MCE202B	MIMO System
PE-MCE202C	Programmable Networks –SDN, NFV
PE-MCE202D	Microwave Measurement Techniques
<b>PE-MCE301</b>	<b>Professional Elective–V</b>
PE-MCE301A	High Performance Networks
PE-MCE301B	Pattern Recognition and Machine Learning
PE-MCE301C	Remote Sensing
PE-MCE301D	Electromagnetic Interference and Electromagnetic Compatibility (EMI and EMC)



# MCKV INSTITUTE OF ENGINEERING

NAAC Accredited "A" Grade Autonomous Institute under UGC Act 1956  
Approved by AICTE & affiliated to Maulana Abul Kalam Azad University of Technology, West Bengal

243 G.T. Road (N), Liluah, Howrah- 711204, West Bengal, India

Ph: +91 33 26549315/17 Fax +91 33 26549318 Web: www.mckvie.edu.in

List of Elective Courses	
<b>OE-MCE301</b>	<b>Open Elective</b>
OE-MCE301A	Business Analytics
OE-MCE301B	Operations Research
OE-MCE301C	Cost Management of Engineering Projects
OE-MCE301D	Industrial Safety
OE-MCE301E	Composite Materials
OE-MCE301F	Waste to Energy

List of Audit Courses	
<b>PW-MCE171</b>	<b>Audit Course-I</b>
PW-MCE171A	English for Research Paper Writing
PW-MCE171B	Pedagogy Studies
PW-MCE171C	Value Education
PW-MCE171D	Stress Management by Yoga
<b>PW-MCE271</b>	<b>Audit Course-II</b>
PW-MCE271A	Personality Development through Life Enlightenment Skills.
PW-MCE271B	Sanskrit for Technical Knowledge
PW-MCE271C	Constitution of India
PW-MCE271D	Disaster Management