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**APJ Abdul Kalam Technological University  
Thiruvananthapuram**

**Abstract**

APJAKTU- M.Tech Degree Certificate format - Finalized - Orders issued.

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*ACADEMIC SECTION*

U.O.No. 180/2020/KTU

Thiruvananthapuram, Dated: 31.01.2020

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- Read:-*1. Minutes of the 6th meeting of the Academic Council held on 26/10/2019, vide item no.006.3.12.  
2. Minutes of the 7th meeting of the Academic Council held on 19/12/2019, vide item no.007.2.09.  
3. Report submitted by the Subcommittee, dated 11.12.2019.

**ORDER**

Vide reference cited 1 above, the 6th meeting of the Academic Council held on 26/10/2019, constituted a subcommittee with Dr.C.Sathish Kumar as convenor, and Dr.Vrinda.V.Nair and Dr.J.David as members, to study and submit a proposal/draft format of M.Tech. Degree Certificate. The report of the subcommittee, as under reference 3, was placed in the 7th meeting of the Academic Council held on 19/12/2019, vide item no.007.2.09.

The unanimous recommendations of the sub-committee are as follows:

1. Not to print the U.G.Branch of the candidate in M.Tech Degree Certificate.
2. In the Degree certificate, it will be stated as " Master of Technology in <Specialisation>".
3. Name of department offering the M.Tech programme shall not be stated in the Degree certificate.
4. A separate table is prepared in order to decide the relevant stream of engineering discipline pertaining to each M.Tech programme. This will be useful for students when applying for jobs and research. Authenticated version of this document may be published in the University Website.

The Academic Council approved the recommendations of the subcommittee and decided to issue detailed orders relating the M.Tech specializations with the relevant streams of Engineering discipline and to publish these details as part of the Prospectus of 2020 PG admissions in all affiliated colleges under the University. The table of M.Tech specialization and relevant streams of engineering discipline is attached along with this order for reference.

Orders are issued accordingly.

Sd/-



Dr. J. SREEKUMAR \*  
Dean (Academic)

Copy to:-

1. Principals of all colleges offering PG Programmes.
2. Office of the CoE
3. JD(IT), to publish in the website.

\* This is a computer system (Digital File) generated letter. Hence there is no need for a physical signature.



**APJ Abdul Kalam Technological University,  
Thiruvananthapuram, Kerala.**

**M.Tech. Specialisation and Relevant Streams of Engineering Discipline**

<b>Sl. No.</b>	<b>M. Tech. Specialisation</b>	<b>Relevant streams of engineering discipline</b>
1	Geotechnical Engineering	Civil Engineering
2	Structural Engineering	Civil Engineering
3	Hydraulics Engineering	Civil Engineering
4	Traffic and Transportation Engineering	Civil Engineering
5	Geo Informatics	Civil Engineering
6	Environmental Engineering	Civil Engineering, Chemical Engineering, Mechanical Engineering, Industrial Engineering, Automobile Engineering, Production Engineering, Production cum Plant Engineering, Mechatronics Engineering, Mechanical stream Automobile Engineering, Mechanical stream Production Engineering
7	Transportation Engineering	Civil Engineering
8	Water Resources and Hydro Informatics	Civil Engineering
9	Computer Aided Structural Engineering	Civil Engineering
10	Structural Engineering and Construction Management	Civil Engineering
11	Geomechanics and Structures	Civil Engineering
12	Construction Engineering and Management	Civil Engineering
13	Environmental Engineering and Management	Civil Engineering, Chemical Engineering, Mechanical Engineering, Industrial Engineering, Automobile Engineering, Production Engineering, Production cum Plant Engineering, Mechatronics Engineering, Mechanical stream Automobile Engineering, Mechanical stream Production Engineering



<b>Sl. No.</b>	<b>M. Tech. Specialisation</b>	<b>Relevant streams of engineering discipline</b>
14	Thermal Science	Mechanical Engineering, Automobile Engineering, Production Engineering, Production cum Plant Engineering, Mechanical stream Automobile Engineering, Mechanical stream Production Engineering, Industrial Engineering
15	Machine Design	Mechanical Engineering, Mechanical stream Automobile Engineering, Mechanical stream Production Engineering, Industrial Engineering, Mechatronics Engineering, Production Engineering, Production cum Plant Engineering, Automobile Engineering
16	Propulsion Engineering	Mechanical Engineering, Mechanical stream Automobile Engineering, Mechanical stream Production Engineering, Industrial Engineering, Aeronautical Engineering, Production Engineering, Production cum Plant Engineering, Automobile Engineering
17	Industrial Engineering	Industrial Engineering, Mechanical Engineering, Production Engineering, Production cum Plant Engineering, Automobile Engineering, Mechanical stream Production Engineering, Mechanical stream Automobile Engineering, Aeronautical Engineering
18	Financial Engineering	Any stream of Engineering
19	Industrial Engineering and Management	Any stream of Engineering
20	Production Engineering	Mechanical Engineering, Production Engineering, Industrial Engineering, Automobile Engineering, Mechanical stream Automobile Engineering, Mechanical stream Production Engineering, Production cum Plant Engineering
21	Internal Combustion Engines and Turbo Machinery	Automobile Engineering, Mechanical Engineering, Mechanical stream Automobile Engineering



Sl. No.	M. Tech. Specialisation	Relevant streams of engineering discipline
22	IC Engines and Energy Systems	Mechanical Engineering, Automobile Engineering, Aeronautical Engineering, Aerospace Engineering, Chemical Engineering, Mechanical stream Automobile Engineering, Mechatronics, Naval Architecture and Ship Building Engineering, Safety and Fire Engineering
23	Advanced Manufacturing and Mechanical Systems Design	Mechanical Engineering, Production Engineering, Production cum Plant Engineering, Industrial Engineering, Automobile Engineering, Mechanical stream Production Engineering, Mechanical stream Automobile Engineering, Mechatronics Engineering
24	Energy Systems Analysis and Design	Mechanical Engineering, Chemical Engineering, Energy Engineering
25	Industrial Refrigeration and Cryogenic Engineering	Mechanical Engineering, Mechanical stream Automobile Engineering, Mechanical stream Production Engineering, Industrial Engineering, Production Engineering, Production cum Plant Engineering
26	Thermal Power Engineering	Mechanical Engineering, Automobile , Production Engineering, Production cum Plant Engineering, Mechanical stream Automobile Engineering, Mechanical stream Production Engineering, Industrial Engineering
27	Computer Integrated Manufacturing	Mechanical Engineering, Industrial Engineering, Production Engineering, Production cum Plant Engineering, Automobile Engineering, Mechanical stream Automobile Engineering, Mechanical Stream Production Engineering , Mechatronics Engineering



<b>Sl. No.</b>	<b>M. Tech. Specialisation</b>	<b>Relevant streams of engineering discipline</b>
28	Manufacturing System and Management	Production Engineering, Production cum Plant Engineering, Mechanical stream Production Engineering, Mechanical stream Automobile Engineering, Mechanical Engineering, Industrial Engineering, Automobile Engineering, Printing Technology
29	Thermal and Fluids Engineering	Mechanical Engineering, Automobile Engineering, Production Engineering, Mechanical stream Automobile Engineering, Mechanical stream Production Engineering, Industrial Engineering, Production cum Plant Engineering
30	Power Systems and Power Electronics	Electrical and Electronics Engineering
31	Thermal Engineering	Mechanical Engineering , Automobile Engineering, Production Engineering, Production cum Plant Engineering, Mechanical stream Automobile Engineering, Mechanical stream Production Engineering, Industrial Engineering, Mechatronics Engineering
32	Energy Management	Mechanical Engineering, Automobile Engineering, Production Engineering, Production cum Plant Engineering, Industrial Engineering, Mechanical stream Automobile Engineering, Mechanical stream Production Engineering, Electrical and Electronics Engineering , Mechatronics Engineering
33	Manufacturing and Automation	Mechanical Engineering ,Production Engineering, Production cum Plant Engineering, Automobile Engineering, Industrial Engineering, Manufacturing Technology
34	Manufacturing Engineering	Mechanical Engineering, Automobile Engineering, Production Engineering, Production cum Plant Engineering



<b>Sl. No.</b>	<b>M. Tech. Specialisation</b>	<b>Relevant streams of engineering discipline</b>
35	Production and Industrial Engineering	Mechanical Engineering, Automobile Engineering, Production Engineering, Industrial Engineering, Mechanical stream Automobile Engineering, Mechanical stream Production Engineering, Production cum Plant Engineering
36	Advanced Manufacturing and Production Management	Mechanical Engineering, Production Engineering, Industrial Engineering, Automobile Engineering, Production cum Plant Engineering, Industrial and Production Engineering, Metallurgy Engineering, Materials Engineering, Mechatronics Engineering
37	Electrical Machines	Electrical and Electronics Engineering
38	Control Systems	Electrical and Electronics Engineering, Electronics and Communication Engineering, Instrumentation and Control
39	Guidance and Navigation Control	Electrical and Electronics Engineering, Electronics and Communication Engineering
40	Industrial Drives and Control	Electrical and Electronics Engineering, Electronics and Communication Engineering, Electronics Engineering, Applied Electronics and Instrumentation Engineering, Electronics and Instrumentation Engineering, Instrumentation Engineering, Instrumentation and Control
41	Power Systems	Electrical and Electronics Engineering
42	Power Electronics and Drives	Electrical and Electronics Engineering
43	Power System and Control	Electrical and Electronics Engineering
44	Power Electronics and Control	Electrical and Electronics Engineering, Electronics and Communication Engineering
45	Power Electronics	Electrical and Electronics Engineering, Electronics and Communication Engineering



<b>Sl. No.</b>	<b>M. Tech. Specialisation</b>	<b>Relevant streams of engineering discipline</b>
46	Power Electronics and Power Systems	Electrical and Electronics Engineering
47	Electrical and Electronics Engineering	Electrical and Electronics Engineering
48	VLSI Design	Electrical and Electronics Engineering, Electronics and Communication Engineering, Applied Electronics and Instrumentation Engineering, Electronics and Instrumentation Engineering, Instrumentation Engineering, Electronics Engineering, Electronics and Bio Medical Engineering, Instrumentation and Control
49	Industrial Instrumentation and Control	Electrical and Electronics Engineering, Electronics and Communication Engineering, Applied Electronics and Instrumentation Engineering, Electronics and Instrumentation Engineering, Instrumentation Engineering, Electronics Engineering, Electronics and Bio Medical Engineering, Instrumentation and Control
50	Power Control and Drives	Electrical and Electronics Engineering
51	Energy Systems	Electrical and Electronics Engineering, Mechanical Engineering
52	Microwave and TV Engineering	Electronics and Communication Engineering, Applied Electronics and Instrumentation Engineering
53	Applied Electronics and Instrumentation	Electronics and Communication Engineering, Applied Electronics and Instrumentation Engineering, Electronics and Instrumentation Engineering, Instrumentation Engineering, Electronics Engineering, Electronics and Bio Medical Engineering, Instrumentation and Control, Bio Medical Engineering





<b>Sl. No.</b>	<b>M. Tech. Specialisation</b>	<b>Relevant streams of engineering discipline</b>
54	Instrumentation and Control	Electronics and Communication Engineering, Applied Electronics and Instrumentation Engineering, Electronics and Instrumentation Engineering, Instrumentation Engineering, Electronics Engineering, Electronics and Bio Medical Engineering, Instrumentation and Control, Electrical and Electronics Engineering
55	Micro and Nano electronics	Electronics and Communication Engineering, Applied Electronics and Instrumentation Engineering, Bio medical Instrumentation, Electronics and Instrumentation Engineering, Instrumentation Engineering, Electronics Engineering, Electronics and Bio Medical Engineering, Instrumentation and Control
56	Advanced Communication and Information System	Electronics and Communication Engineering , Information Technology
57	Advanced Electronics and Communication Engineering	Electronics and Communication Engineering
58	Communication Engineering and Signal Processing	Electronics and Communication Engineering
59	Signal Processing and Embedded Systems	Applied Electronics and Instrumentation Engineering, Electronics and Communication Engineering, Electronics and Instrumentation Engineering, Electrical and Electronics Engineering, Electronics Engineering, Electronics and Bio Medical Engineering
60	VLSI and Embedded Systems	Electronics and Communication Engineering, Applied Electronics, Applied Electronics and Instrumentation Engineering, Instrumentation Engineering, Electronics and Instrumentation, Electronics and Bio Medical Engineering, Electronics Engineering, Biomedical Engineering, Electrical and Electronics Engineering



Sl. No.	M. Tech. Specialisation	Relevant streams of engineering discipline
61	Communication Systems	Electronics and Communication Engineering, Electronics Engineering, Electronics and Instrumentation, Applied Electronics and Instrumentation Engineering, Electronics and Telecommunication Engineering
62	Communication Engineering	Electronics and Communication Engineering, Electronics Engineering, Electronics and Instrumentation, Applied Electronics and Instrumentation Engineering, Electronics and Telecommunication Engineering
63	Wireless Technology	Applied Electronics and Instrumentation Engineering, Electronics and Communication Engineering, Electronics and Instrumentation Engineering
64	VLSI Design and Signal Processing	Electronics and Communication Engineering, Applied Electronics, Applied Electronics and Instrumentation Engineering, Electronics and Instrumentation Engineering, Electronics and Bio Medical Engineering, Electrical and Electronics Engineering, Electronics Engineering
65	Applied Electronics	Electronics Engineering, Electronics and Communication Engineering, Applied Electronics, Applied Electronics and Instrumentation Engineering, Electronics and Instrumentation Engineering
66	Opto Electronics and Communication Systems	Electronics and Communication Engineering, Electronics and Instrumentation Engineering, Electronics and Bio Medical Engineering, Electrical and Electronics Engineering, Applied Electronics and Instrumentation Engineering, Electronics Engineering



<b>Sl. No.</b>	<b>M. Tech. Specialisation</b>	<b>Relevant streams of engineering discipline</b>
67	Electronics and Communication Engineering	Electronics and Communication Engineering, Applied Electronics and Instrumentation
68	Applied Electronics and Communication System	Electronics and Communication Engineering , Electrical and Electronics Engineering
69	Digital Signal Processing	Electronics and Communication Engineering , Applied Electronics and Instrumentation Engineering, Electrical and Electronics Engineering
70	Digital Electronics	Electrical and Electronics Engineering, Electronics and Communication Engineering, Applied Electronics and Instrumentation Engineering, Electronics and Instrumentation Engineering, Instrumentation Engineering, Electronics Engineering, Electronics and Bio Medical Engineering, Instrumentation and Control
71	Telecommunication Engineering	Electronics and Communication Engineering
72	Embedded Systems	Electronics and Communication Engineering, Electrical and Electronics Engineering, Applied Electronics and Instrumentation Engineering, Instrumentation and Control, Electronics and Instrumentation Engineering, Electronics, Computer Science, Computer Science and Engineering, Information Technology, Bio Medical Engineering, Electronics and Bio Medical Engineering, Bio Medical Instrumentation, Applied Electronics
73	Electronics Design Technology	Electronics and Communication Engineering , Applied Electronics and Instrumentation , Instrumentation and Control, Electronics and Instrumentation, Electronics and Bio Medical Engineering



Sl. No.	M. Tech. Specialisation	Relevant streams of engineering discipline
74	VLSI and Embedded Systems Design	Electronics and Communication Engineering, Applied Electronics, Applied Electronics and Instrumentation Engineering, Instrumentation Engineering, Electronics and Instrumentation, Electronics and Bio Medical Engineering, Electronics Engineering
75	Opto Electronics and Communication	Electronics and Communication Engineering, Electronics and Instrumentation Engineering, Electronics and Bio Medical Engineering, Electrical and Electronics Engineering, Applied Electronics and Instrumentation Engineering, Electronics Engineering
76	Robotics and Automation	Electronics and Communication Engineering, Applied Electronics and Instrumentation, Instrumentation and control, Electrical and Electronics Engineering, Mechanical Engineering, Production Engineering, Production cum Plant Engineering, Automobile Engineering, Industrial Engineering, Manufacturing Technology
77	Translational Engineering	Any stream of Engineering
78	Computer Science and Engineering	Computer Science and Engineering, Information Technology
79	Information Security	Computer Science and Engineering, Information Technology
80	Computer Science and Systems Engineering	Computer Science and Engineering, Information Technology
81	Computational Linguistics	Computer Science and Engineering, Information Technology
82	Networks and Security	Computer Science and Engineering, Information Technology
83	Computer and Information Science	Computer Science and Engineering, Information Technology
84	Computer Science and Information Security	Computer Science and Engineering, Information Technology
85	Image Processing	Computer Science and Engineering, Information Technology



Sl. No.	M. Tech. Specialisation	Relevant streams of engineering discipline
86	Cyber Forensics and Information Security	Computer Science and Engineering , Information Technology , Electronics and Communication , Electronics and Instrumentation Engineering , Instrumentation
87	Computer Science and Information System	Computer Science and Engineering , Information Technology, Electronics and Communication, Electrical and Electronics Engineering
88	Cyber Security	Computer Science and Engineering , Information Technology
89	Software Engineering	Computer Science and Engineering, Information Technology
90	Data Security	Computer Science and Engineering, Information Technology
91	Networks	Computer Science and Engineering, Information Technology
92	Manufacturing Systems Management	Production Engineering, Production cum Plant Engineering, Mechanical stream Production Engineering, Mechanical stream Automobile Engineering, Mechanical Engineering, Industrial Engineering, Automobile Engineering, Printing Technology
93	Process Control	Chemical Engineering, Instrumentation Engineering, Instrumentation and Control, Applied Electronics and Instrumentation Engineering, Electronics and Instrumentation Engineering, Bio Medical Engineering, Electronics and Bio Medical Engineering, Bio Medical Instrumentation Engineering
94	Computer Aided Process Design	Chemical Engineering, Instrumentation Engineering, Instrumentation and Control, Applied Electronics and Instrumentation Engineering, Electronics and Instrumentation Engineering, Bio Medical Engineering, Electronics and Bio Medical Engineering, Bio Medical Instrumentation Engineering



<b>Sl. No.</b>	<b>M. Tech. Specialisation</b>	<b>Relevant streams of engineering discipline</b>
95	Nano Technology	Nano Technology, Chemical Engineering, Mechanical Engineering , Electrical Engineering, Civil Engineering, Electronics and Communication, Applied Electronics, Electronics and Instrumentation, Instrumentation and Control, Polymer Engineering, Rubber Technology, Biotechnology, Biochemical and Biotechnology, Metallurgy, Material Engineering
96	Network Engineering	Computer Science and Engineering, Information Technology, Electronics and communication Engineering, Electrical and Electronics Engineering
97	Signal Processing	Electronics and Communication Engineering, Applied Electronics and Instrumentation Engineering, Electronics and Instrumentation Engineering, Instrumentation Engineering, Electronics Engineering, Electronics and Bio Medical Engineering, Instrumentation and Control, Electrical and Electronics Engineering, Biomedical Engineering
98	Industrial Biotechnology	Biotechnology engineering, Industrial Biotechnology Engineering, Biotechnology and Biochemical Engineering, Chemical Engineering, Food Technology, Food Engineering, Environmental Engineering, Dairy Sciences, Pharmaceutical Technology
99	Biotechnology and Biochemical Engineering	Biotechnology, Biochemical Engineering, Chemical Engineering
100	Bioprocess Engineering	Biotechnology engineering, Industrial Biotechnology Engineering, Biotechnology and Biochemical Engineering, Chemical Engineering, Food Technology, Food Engineering, Environmental Engineering, Dairy Sciences, Pharmaceutical Technology



<b>Sl. No.</b>	<b>M. Tech. Specialisation</b>	<b>Relevant streams of engineering discipline</b>
101	Control and Instrumentation	Electronics and Communication Engineering, Electronics and Instrumentation Engineering, Applied Electronics and Instrumentation Engineering, Instrumentation and Control Engineering, Biomedical Instrumentation, Electrical and Electronics Engineering
102	Industrial Automation and Robotics	Electronics and Communication Engineering, Electronics Engineering, Applied Electronics and Instrumentation, Instrumentation and Control, Electrical and Electronics Engineering, Computer Science and Engineering, Mechanical Engineering , Production Engineering, Production cum Plant Engineering, Automobile Engineering, Industrial Engineering, Manufacturing Technology, Mechatronics Engineering
103	M.Arch. - Urban Design	Architecture
104	M. Planning - Urban Planning	Architecture, Civil Engineering, Planning
105	M. Planning - Housing	Architecture, Civil Engineering, Planning
106	Electronics Design Technology	Electronics and Communication Engineering, Applied Electronics and Instrumentation, Instrumentation and Control, Electronics and Instrumentation, Electronics and Bio Medical Engineering
107	Information Systems	Computer Science and Engineering , Information Technology, Electronics and Communication, Electrical and Electronics Engineering
108	Thermal Systems and Design	Mechanical Engineering , Automobile Engineering, Production Engineering, Production cum Plant Engineering, Mechanical stream Automobile Engineering, Mechanical stream Production Engineering, Industrial Engineering, Mechatronics Engineering



Sl. No.	M. Tech. Specialisation	Relevant streams of engineering discipline
109	Optoelectronics Engineering	Electronics and Communication Engineering, Electronics and Instrumentation Engineering, Electronics and Bio Medical Engineering, Electrical and Electronics Engineering, Applied Electronics and Instrumentation Engineering, Electronics Engineering
110	VLSI	Electronics and Communication Engineering, Applied Electronics, Applied Electronics and Instrumentation Engineering, Instrumentation Engineering, Electronics and Instrumentation, Electronics and Bio Medical Engineering, Electronics Engineering

