

Criterion I**Curricular Aspects****1.2.1: New courses Introduced during the last five years**

The details of the new courses introduced is covered under the following agenda item in the Academic Council minutes of last five years

SI #	Academic Year	Agenda Item	Number of new courses introduced
1.	2021-2022	AC 30.6	163
2.	2020-2021	AC 26.12	202
3.	2019-2020	AC 24.14	276
4.	2018-2019	AC 20.5	258
5.	2017-2018	AC 16.7	199

The Total number of new courses introduced during the last five years : 1098



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CRITERION I

Curricular Aspects

Minutes of the Academic Council Meeting

Academic Year 2021-22





PES UNIVERSITY
(Established under Karnataka Act No. 16 of 2013)
100 Feet Ring Road, BSK III Stage,
Bengaluru-560085
Karnataka, India

Ref:PESU/AC/2020/30(B)

**MINUTES OF THE TWENTYNINTH ACADEMIC COUNCIL MEETING HELD ON JULY 23,
2021(ONLINE MEETING)**

Members present:

1	Dr. J.Suryaprasad Vice-Chancellor, PESU	Chairperson
2	Dr.Rajinikanth Former Principal - MSRIT (Sponsoring body nominee)	Member
3	Dr. G. Jagadeesh, Professor, IISc, Bangalore (Sponsoring body nominee)	Member
4	Dr. R.Vasudevan Iyer - Controller of Examinations, PESU	Member
5	Dr. B.K. Keshavan - Dean of Engineering and Technology, PESU	Member
6	Dr. N. Anuradha- Dean of Architecture and Design, PESU	Member
7	Dr. TSB Sudarshan - Dean, Research, PES University	Member
8	Prof. Nitin Pujari - Dean, IQAC, PES University	Member
9	Dr. V. Krishna - Dean, Student Affairs, PES University	Member
10	Dr.Veena . A, Chairperson - MBA, PES University	Invitee
11	Dr. Sandeep Desai - Dean, Faculty of Law, PES University	Member
12	Dr.J.Saravannan - Dean - Faculty of Pharmaceuticals, PES University	Member
13	Dr. K. S.Sridhar, Registrar, PESU	Member-Secretary

Meeting Agenda

#	Item Description	Remarks
	Welcome	Registrar, Secretary of AC to present the welcome address.
AC-30.1	Opening remarks	The Vice-Chancellor, Chairperson of AC to make opening remarks
AC-30.2	Confirming the minutes of the previous meeting	The Council to confirm the minutes of the previous meeting (29 th AC Meeting held on April 19, 2021)
AC-30.3	Conduction of ESA for the Graduating class of 2021 (UG/PG), and seeking ratification of results.	The Vice-Chancellor to brief the Council on the conduction of ESA for the Graduating class of 2021 for both UG and PG Programs held during May-June 2021,introducing "Not Meeting Standards(NMS)" and seeking ratification of the Results published.



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	(UG/PG), and seeking ratification of results.	for both UG and PG Programs held during May-June 2021, introducing "Not Meeting Standards(NMS)" and seeking ratification of the Results published.
AC-30.4	Conduction of online ISA for 2 nd semester students	The Vice-Chancellor to inform the members of the council on the conduction of online ISA for 2 nd semester students starting July 19, 2021.
AC 30.5	Conduction of offline ESA for all semesters during Jul/Aug 2021	The Vice-Chancellor to inform the members of the council on the conduction of offline ESA for all semesters during Jul/Aug 2021.
AC 30.6	Curriculum for the Academic Year 2021-2022 for various Programs of Study	The Vice-Chancellor to brief the Council on the Scheme of Studies and Curriculum approved by DCC for the various Programs of study of the University and seek inputs/suggestions from the Members of the Council.
AC 30.7	Sanctioned Teaching posts for the Academic Year 2021-22	Registrar to present the sanctioned teaching posts for the Academic Year 2021-22
AC 30.8	Stakeholders feedback Analysis of 2020-21 and status of the Action Taken Reports	Dean IQAC to present the analysis and the status of the Action Taken Reports
AC 30.8	Any other matter with the permission of the Chair	With permission of the Chairperson, Secretary to request members for bringing up any other matter for discussion.
AC 30.9	Concluding Remarks	Chairperson to make the concluding remarks
	Vote of Thanks	Secretary to propose Vote of Thanks

Welcome

The Registrar, Member Secretary of the Academic Council, extended a cordial welcome to all the members and requested the Vice-Chancellor, the Chairperson, to make the opening remarks and conduct the proceedings.

Item No. AC-30.1 of the Agenda of the THIRTIETH meeting of the Academic Council held on July 23, 2021

AC-30.1 Opening remarks

The Vice-Chancellor in his opening remarks welcomed the Hon'ble Members and briefed on the agenda points of the meeting. He informed the Council that the experience gained in handling matters during the previous year helped the University to make appropriate decisions on class and Test/Exam conduction for the recent Semesters. He thanked the Members of AC for permitting the University to take few decisions. He informed the Members that around 1900 students have completed all the credits for the award of Degree across various programs of the University and about 500 students are yet to complete the balance credits. Students of the Graduating class were given the opportunity to complete pending subjects of the pre final Semester along with the Final Semester,



Dr.Jagadeesh wished to know if the Math curriculum planned for each department has not been diluted as he felt that Math is a very basic and important subject in Engineering.

Dr.Rajanikanth mentioned that the Math curriculum is very well conceptualized specific to the branch of Engineering which included applications as well and agreed with Dr Jagadeesh and to not compromise on the fundamentals and the basic mathematics foundation needed for Engineering.

Resolution: The council resolved to the approve the revision of syllabus for the following programs

1	B. Tech in Computer Science & Engineering
2	B. Tech in Electrical and Electronics Engineering
3	B.Tech in Electronics and Communication Engineering
4	B.Tech in Mechanical Engineering
5	Bachelor of Business Administration
6	Bachelor of Business Administration - Hospitality and Event Management
7	Bachelor of Design
8	M.Tech in Computer Science & Engineering
9	M.Tech in Electronics and Communication Engineering
10	Master of Business Administration
11	Master of Computer Application
12	Bachelor of Commerce
13	Master of Commerce

The Council approved the new courses (List given in Appendix 1) for the academic Year 2021-22

Total New Courses Approved for the Academic Year 2021-22: 163

The Council also approved the courses in the curriculum which contributed to the employability, Skill Development. The total number of such courses for the Academic Year 2021-22 is 959

Resolution: The members approved the curriculum prepared for the academic session 2021-2022.

Item No. AC-30.7 of the Agenda of the THIRTIETH meeting of the Academic Council held on July 23, 2021



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Appendix – 1

List of New courses for Academic Year 2021-22

1	UE20BT257A	Genetic Counseling	B.Tech-BT
2	UE20BT257B	Rhizosphere engineering for crop improvement	B.Tech-BT
3	UE19BT343	Computational Biology	B.Tech-BT
4	UE17BT451 B	Vermitechnology	B.Tech-BT
5	UE17BT451 C	Biotechnology & Management	B.Tech-BT
6	UE17BT451 D	Data Analytics for Biology	B.Tech-BT
7	UE20BT257A	Microbiome	B.Tech-BT
8	UE20BT335	Cancer Biology	B.Tech-BT
9	UE19BT400A	Cell culture techniques	B.Tech-BT
10	UE19BT400B	Research Methodology	B.Tech-BT
11	UE20BT257B	Epidemiology	B.Tech-BT
12	UE19BT451B	Quality assurance and validation	B.Tech-BT
13	UE19BT451C	Metabolomics	B.Tech-BT
14	UE19BT451D	Sustainable green technologies	B.Tech-BT
15	UE20BT334	Plant Layout Design AND OHS (Occupational Health and Safety)	B.Tech-BT
16	UE19CS315	Fundamentals of Augmented and Virtual Reality	B.Tech-CSE
17	UE19CS353	Object Oriented Analysis & Design with Java	B.Tech-CSE
18	UE19CS333	Image Processing and Computer Vision	B.Tech-CSE
19	UE19CS336	Digital Forensics	B.Tech-CSE
20	UE19CS345	Network Analysis and Mining	B.Tech-CSE
21	UE19EC313	Advanced Digital Design	B.Tech-ECE
22	UE19EC325	Synthesis and Timing Analysis of Digital Circuits	B.Tech-ECE
23	UE19EC336	Formal Verification of Digital Designs	B.Tech-ECE
24	UE19EC347	Architectures for Hardware Acceleration	B.Tech-ECE
25	UE19EC349	Reinforcement Learning	B.Tech-ECE
26	UE19EC345	Data Converters	B.Tech-ECE
27	UE19EC339	Robotic Systems	B.Tech-ECE
28	UE20EC662	Antenna Design using simulation tools	M.Tech-ECE
29	UE20EC664	Post Silicon Validation	M.Tech-ECE
30	UE22EE642BB2	Electric Vehicle Systems	B.Tech-EE
31	UE19ME306B	Operation Management	B.Tech-ME
32	UE18ME401A	Design of Automotive components	B.Tech-ME
33	UE18ME401B	Nanotechnology	B.Tech-ME
34	UE18ME401C	Industrial Automation and IoT	B.Tech-ME
35	UE18ME401D	Energy Engineering	B.Tech-ME
36	UE18ME402A	Practical Finite Element Analysis	B.Tech-ME
37	UE18ME402B	Modeling of Electric Vehicles	B.Tech-ME
38	UE18ME402C	Vehicle Occupant Safety	B.Tech-ME
39	UE18ME402D	Quantitative Techniques in Decision Making	B.Tech-ME



40	UE18ME402E	Design for Manufacturing	B.Tech-ME
41	UE18ME403A	Vehicle Acoustics	B.Tech-ME
42	UE18ME403B	Failure Analysis and Prevention	B.Tech-ME
43	UE18ME403C	Plastic Molding Techniques and Analysis	B.Tech-ME
44	UE18ME403D	Ansys ICEM CFD	B.Tech-ME
45	UE18ME404A	Modeling of Hybrid Vehicles	B.Tech-ME
46	UE18ME404B	Two-Wheeler Technology	B.Tech-ME
47	UE18ME404C	Engineering Models in Optimization	B.Tech-ME
48	UE18ME404D	Industrial Statistics	B.Tech-ME
49	UE18ME404E	Optimization of Thermal Energy Systems	B.Tech-ME
50	UE18ME451A	Solar energy	B.Tech-ME
51	UE18ME451B	Computational Structural analysis	B.Tech-ME
52	UE18ME451C	Press tool design	B.Tech-ME
53	UE18ME452A	Automotive body engineering	B.Tech-ME
54	UE18ME452B	Computational Mechanisms and Robots analysis	B.Tech-ME
55	UE18ME452C	Agile Manufacturing	B.Tech-ME
56	UE18ME452D	Electronics Cooling	B.Tech-ME
57	UE18ME453A	Non-destructive testing	B.Tech-ME
58	UE18ME453B	Cryogenics	B.Tech-ME
59	UE18ME453C	Vehicle Vibrations	B.Tech-ME
60	UE18ME453D	Biomechanics of joints and orthopedic implants	B.Tech-ME
61	UE21ME506	Modeling and analysis of Mechanical systems	M.Tech-ME
62	UE20MC501	Cloud Computing	MCA
63	UE20MC502	Machine Learning	MCA
64	UE20MC503	Object Oriented Modeling and Design	MCA
65	UE20MC505A	Debugging and Testing	MCA
66	UE20MC505B	NoSQL	MCA
67	UE20MC505C	Mobile Application Development using Android	MCA
68	UE20MC511	Web Application Frameworks	MCA
69	UE20MC512	Semantic Web	MCA
70	UE20MC513	Cryptography and Network Security	MCA
71	UE20MC514	Network Programming	MCA
72	UE20MC521	Component based Web Native Design	MCA
73	UE20MC522	Web Content Management	MCA
74	UE20MC523	Advanced Computer Networks	MCA
75	UE20MC524	High Performance Networks	MCA
76	UQ21CA611A	Python Programming Lab	MCA
77	UQ21CA612A	Data Structures Lab	MCA
78	UQ21CA621A	Special Topic: Design and Development of Web Applications	MCA
79	UQ21CA641A	Programming with Python	MCA
80	UQ21CA642A	Discrete Mathematics for Computer Applications	MCA
81	UQ21CA642BA2	Semantic Web	MCA
82	UQ21CA643A	Data Structures	MCA



83	UQ21CA644A	Principles of Operating Systems	MCA
84	UQ21CA645A	Web Application and Technology	MCA
85	UM21MB507	Business Law and Ethics	MBA
86	UM21MB557	Human Capital Management	MBA
87	UM21MB558	R Programing	MBA
88	UM21MB559	Financial Statement Analysis	MBA
89	UM21MB560	Consumer Behaviour	MBA
90	UM21MB561	Entrepreneurship Foundation	MBA
91	UM20BB212	Professional Skills for International Business (Special Topics)	BBA
92	UM20BB252	Business Analytics	BBA
93	UM20BB258	Basic Econometrics (Special Topic)	BBA
94	UM20BB262	EXIM Management (Special Topic)	BBA
95	UM20BH258	Food culture and sustainability	BBA-HEM
96	UM20BH259	CRISIS & DISASTER MANAGEMENT (ST)	BBA-HEM
97	UM20BH260	GUEST PSYCHOLOGY (ST)	BBA-HEM
98	UM19BH308	RESEARCH & PUBLICATION	BBA-HEM
99	UM19BH309	LEADERSHIP & DECISION MAKING	BBA-HEM
100	UM19BH310	ENTREPRENEURSHIP DEVELOPMENT	BBA-HEM
101	UM21BC102	Principles of Economics	B.Com
102	UM20BC104	Principles of HRM	B.Com
103	UM21BC152	Principles of Financial Management	B.Com
104	UM21BC153	Principles of Marketing	B.Com
105	UM21BC154	Principles and Practices of Banking and Insurance	B.Com
106	UM21BC155	International Business	B.Com
107	UM21MC405	Life skill and communication	M.Com
108	UM21MC451	Advanced Business Analytics,	M.Com
109	UM21MC402	Organization Management	M.Com
110	UM20MC553	Derivatives Markets,	M.Com
111	UM20MC552	Corporate Tax Planning,	M.Com
112	UM20MC505	Financial Institutions and Markets	M.Com
113	UA18BA405	Entrepreneurship skills for Architects *	B.Arch
114	UA18BA471E	Disaster Mitigation and Management *	B.Arch
115	UA18BA472E	Earthquake Resistant Architecture *	B.Arch
116	UA18BA481E	Sustainable Cities and Communities *	B.Arch
117	UA18BA482E	Building Performance and Compliance *	B.Arch
118	UA18BA483E	GIS *	B.Arch
119	UA18BA484E	AI in Architecture *	B.Arch
120	UA17BA553	Road Safety and Civic Sense *	B.Arch
121	UL17BL501	Conflict of laws * *	BBA-LLB
122	UL17BL502	Law and Economics * *	BBA-LLB
123	UL17BL503	Investment Law * *	BBA-LLB
124	UL17BL504	Alternative Dispute Resolution * *	BBA-LLB
125	UL17BL505	Drafting Pleading and conveyancing * *	BBA-LLB
126	UL17BL551	Law of equitable and Civil Remedies * *	BBA-LLB



127	UL17BL552	Mergers and acquisitions * *	BBA-LLB
128	UL17BL553	Moot Court and Internship * *	BBA-LLB
129	UL17BL554	Professional Ethics and professional Accounting System * *	BBA-LLB
130	UL18BL404	Cyber Law * *	BBA-LLB
131	UL18BL406B	Law of Copyright and Designs * *	BBA-LLB
132	UL18BL145B	Law of Patent and Practice * *	BBA-LLB
133	UL18BL456B	Law of Trademark and Geographical Indicator * *	BBA-LLB
134	UL19BA301	World Constitutions * *	BA-LLB
135	UL19BA351	International Relations * *	BA-LLB
136	BP501T	Medicinal Chemistry II – Theory ***	B.Pharm
137	BP502T	Industrial Pharmacy I – Theory ***	B.Pharm
138	BP503T	Pharmacology II – Theory ***	B.Pharm
139	BP504T	Pharmacognosy & Phytochemistry II – Theory ***	B.Pharm
140	BP505T	Pharmaceutical Jurisprudence – Theory ***	B.Pharm
141	BP506P	Industrial Pharmacy I – Practical ***	B.Pharm
142	BP507P	Pharmacology II – Practical***	B.Pharm
143	BP508P	Pharmacognosy & Phytochemistry II – Practical ***	B.Pharm
144	BP601T	Medicinal Chemistry III – Theory ***	B.Pharm
145	BP602T	Pharmacology III – Theory ***	B.Pharm
146	BP603T	Herbal Drug Technology – Theory ***	B.Pharm
147	BP604T	Biopharmaceutics & Pharmacokinetics – Theory ***	B.Pharm
148	BP605T	Pharmaceutical Biotechnology – Theory ***	B.Pharm
149	BP606T	Quality Assurance –Theory ***	B.Pharm
150	BP607P	Medicinal Chemistry III – Practical ***	B.Pharm
151	BP608P	Pharmacology III – Practical ***	B.Pharm
152	BP609P	Herbal Drug Technology – Practical ***	B.Pharm
153	PDA301T	Pharmacology-II ***	Pharm.D
154	PDA302T	Pharmaceutical Analysis ***	Pharm.D
155	PDA303T	Pharmacotherapeutics-II ***	Pharm.D
156	PDA304T	Pharmaceutical Jurisprudence ***	Pharm.D
157	PDA305T	Medicinal Chemistry ***	Pharm.D
158	PDA306T	Pharmaceutical Formulations ***	Pharm.D
159	PDA301P	Pharmacology-II ***	Pharm.D
160	PDA302P	Pharmaceutical Analysis ***	Pharm.D
161	PDA303P	Pharmacotherapeutics-II ***	Pharm.D
162	PDA305P	Medicinal Chemistry ***	Pharm.D
163	PDA306P	Pharmaceutical Formulations ***	Pharm.D

- * As per Council of Architecture - COA
- **As per Bar Council of India – BCI
- ***As per Pharmacy Council of India-PCI



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CRITERION I

Curricular Aspects

Minutes of the Academic Council Meeting

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Ref:PESU/AC/2020/26(B)

**MINUTES OF THE TWENTY SIXTH ACADEMIC COUNCIL MEETING HELD ON
09 October 2020, AT 10.30 AM (ONLINE MEETING)**

Members present:

1	Dr. J.Suryaprasad Vice-Chancellor, PESU	Chairperson
2	Dr.Rajinikanth Former Principal - MSRIT (Sponsoring body nominee)	Member
3	Dr. G. Jagadeesh , Professor, IISc, Bangalore (Sponsoring body nominee)	Member
4	Dr. R.Vasudevan Iyer - Controller of Examinations, PESU	Member
5	Dr. Nagendra Parashar - Pro vice-Chancellor, PES University (EC Campus)	Member
6	Dr. B.K. Keshavan - Dean of Engineering and Technology, PESU	Member
7	Dr. N. Anuradha - Dean of Architecture and Design, PESU	Member
8	Dr. TSB Sudarshan - Dean, Research, PES University	Member
9	Prof. Nitin Pujari - Dean, IQAC, PES University	Member
10	Dr. V. Krishna - Dean, Student Affairs, PES University	Member
11	Dr.Veena . A , Chairperson - MBA, PES University	Invitee
12	Dr. Sandeep Desai - Dean, Faculty of Law, PES University	Member
13	Dr.J.Saravanan , Dean - Faculty of Pharmaceuticals, PES University	Member
14	Dr. K. S.Sridhar , Registrar, PESU	Member-Secretary



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AC-26.10	Update on progress of Ph.D work of Research Scholars/Ph.D admissions for 2020.	Dean, Research to brief the members of AC on progress of work of Research Scholars and admissions to Ph.D across various programs of the University.
AC 26.11	Any other matter with the permission of the Chair	With permission of the Chairperson, Secretary to request members for bringing up any other matter for discussion.
AC 26.12	Approval of Change in Syllabus and New courses	
AC 26.13	Implementation of CBCS/ECS Systems for programs of study	Registrar to brief about the Implementation of CBCS/ ECS system for different programs
AC 26.14	Value added / certificate courses	Registrar to brief about the value added courses and certificate courses offered for the academic years 2017-18 , 2018-19, 2019-20
AC 26.15	Approval of University Policies	Registrar to brief about the various university policies
AC 26.16	Approval of IQAC	
AC 26.17	Discussion on minutes of Meeting of Committees	Registrar to brief about the minutes of IQAC, ICC, ARC, GRC
AC26.18	Sanctioned Teaching Posts for the Academic Year 2020-21	Registrar to brief about the sanctioned Teaching Posts
AC26.19	Stakeholders feedback Analysis of 2019-20 and status of the Action Taken Reports	Dean IQAC to present the analysis and the status of the Action Taken Reports
AC 26.20	Concluding Remarks	Chairperson to make the concluding remarks
AC 26.21	Vote of Thanks	Secretary to propose Vote of Thanks



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Resolution: The council resolved to approve the introduction of the new courses (List in Appendix 1) proposed by the Department Curriculum committee (BOS) of programs of study

Total New Courses proposed for the Academic Year 2020-21: 202

The Council also approved the courses in the curriculum which contributed to the employability, Skill Development. The total number of such courses for the Academic Year 2021-22 is 925

Item No. AC-26.13 of the Agenda of the TWENTY SIXTH meeting of the Academic Council held on 9 October 2020

AC 26.13 Implementation of CBCS/ECS Systems for programs of study

The Registrar briefed about programs implementing CBCS / Elective Systems. The Details are as follows

Programs implementing CBCS

Sl#	Program Name	Year of Implementation
1.	B.Tech in BioTechnology	2014-15
2.	B.Tech in Civil Engineering	2014-15
3.	B.Tech in Computer Science & Engineering	2014-15
4.	B.Tech in Electrical and Electronics Engineering	2014-15
5.	B.Tech in Electronics and Communication Engineering	2014-15
6.	B.Tech in Mechanical Engineering	2014-15
7.	M.Tech in BioTechnology	2014-15
8.	M.Tech in Structural Engineering	2014-15
9.	M.Tech in Computer Science & Engineering	2014-15
10.	M.Tech in Electrical and Electronics	2014-15
11.	M.Tech in Electrical and Electronics	2014-15
12.	M.Tech in Electronics and Communication	2014-15
13.	M.Tech in Mechanical Engineering	2014-15
14.	Masters of Computer Application	2014-15



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Appendix 1

List of New Courses Proposed for the Academic Year 2020-21

Sl#	Course Code	Course Name	Program
1	UE18BT352	Upstream & Downstream Process Technology	B.Tech-BT
2	UE18BT306	Cell Designer for Biochemical Modelling	B.Tech-BT
3	UE20EV101	Environmental studies and life sciences	B.Tech-BT
4	UE19BT207A	Forensic Graphology	B.Tech-BT
5	UE19CS205	Automata Formal Languages and Logic	B.Tech-CSE
6	UE18CS313	Internet of Things	B.Tech-CSE
7	UE18CS314	Applied Cryptography	B.Tech-CSE
8	UE18CS323	Graph Theory and Its Applications	B.Tech-CSE
9	UE18CS324	Block Chain	B.Tech-CSE
10	UE18CS325	Web Technologies -II)	B.Tech-CSE
11	UE18CS354	Cloud Computing Laboratory	B.Tech-CSE
12	UE18CS353	Object Oriented Analysis and Design with Software Engineering	B.Tech-CSE
13	UE18CS355	Object Oriented Analysis and Design with Software Engineering Laboratory	B.Tech-CSE
14	UE18CS337	Cyber Forensics	B.Tech-CSE
15	UE18CS341	Design Patterns	B.Tech-CSE
16	UE18CS345	Bio-inspired Computing	B.Tech-CSE
17	UE18CS347	Information Security	B.Tech-CSE
18	UE18CS348	Human Computer Interaction	B.Tech-CSE
19	UE17CS414	Block Chain Technologies	B.Tech-CSE
20	UE20EC101	Electronics Principles and Devices	B.Tech-ECE
21	UE19EC205	Computer Organization and Digital Design	B.Tech-ECE
22	UE18EC316	Electronic Device Automation – Verilog to Routing	B.Tech-ECE
23	UE18EC335	Quantum Entanglement and Quantum Computing	B.Tech-ECE
24	UE18EC350	Quantum Transport and Logic Gates	B.Tech-ECE
25	UE18EC324	High Speed Digital Interfaces	B.Tech-ECE
26	UE18EC325	Computational Quantum Photonics	B.Tech-ECE
27	UE20EC513	Low Power VLSI	M.Tech-ECE
28	UE20EC523	Advanced Digital Design using Verilog and Verification	M.Tech-ECE
29	UE19EC614	Formal Verification of Hardware Designs	M.Tech-ECE
30	UE18EE312	Distribution Side Management & Energy Audit	B.Tech-EE
31	UE18EE336	Soft computing	B.Tech-EE
32	UE20EE531	Drives and Utility Interactive Systems	B.Tech-EE




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33	UE20EE623	Machine Learning	B.Tech-EE
34	UE20EE621	Modeling of Electrical Drives	M.Tech-EE
35	UE20EE511	Power Electronic Converter Technologies	M.Tech-EE
36	UE19ME205	Material Testing Laboratory	B.Tech-ME
37	UE19MA101D	Engineering Mathematics – I (Lateral Entry Students)	B.Tech-ME
38	UE19ME254	Manufacturing Technology 1	B.Tech-ME
39	UE19ME256	Fluid Mechanics and Machinery	B.Tech-ME
40	UE18ME301	Design of Machine Elements	B.Tech-ME
41	UE18ME302	Principles of Energy Conversion	B.Tech-ME
42	UE18ME303	Manufacturing Processes and CIM	B.Tech-ME
43	UE18ME304	Machine Shop Practice	B.Tech-ME
44	UE18ME305	Energy Conversion Laboratory	B.Tech-ME
45	UE18ME313	Vehicle Dynamics	B.Tech-ME
46	UE18ME315	Mechatronics and MEMS	B.Tech-ME
47	UE18ME322	Sustainable Energy Systems	B.Tech-ME
48	UE18ME324	Electric and Hybrid Vehicles	B.Tech-ME
49	UE18ME353	Metal Forming Processes and Non-Traditional Machining	B.Tech-ME
50	UE18ME334	Autonomous vehicles	B.Tech-ME
51	UE18ME343	Automotive Powertrains	B.Tech-ME
52	UE18IE341	Nano Science and Technology	B.Tech-ME
53	UE17ME411	Principles of Aerodynamics	B.Tech-ME
54	UE17ME414	Tribology and Bearing Design	B.Tech-ME
55	UE19ME207A	MATLAB for Mechanical Engineers	B.Tech-ME
56	UE19ME207B	Basics of Automobiles Engineering	B.Tech-ME
57	UE19ME306A	Vehicle Electronics	B.Tech-ME
58	UE19ME306D	Ansys Fluent	B.Tech-ME
59	UE20MA201	Mathematics For Mechanical Engineers	B.Tech-ME
60	UE20ME523	Vehicle Dynamics & Control	M.Tech-ME
61	UE20ME573	Vehicle Propulsion Systems	M.Tech-ME
62	UE19ME667	Ergonomics in Design	M.Tech-ME
63	UE20MC407J	Android App Development	MCA
64	UE20MC407K	UI and UX Design	MCA
65	UE20MC407M	Automation Testing with Selenium	MCA
66	UE20MC454	Java Enterprise Application Development	MCA
67	UE20MC459	Special Topic: Exploratory data analysis	MCA
68	UE20MC508A	Special Topic: Object Oriented Modelling and Design	MCA
69	UM20MB602	Statistics for Data Science	MBA
70	UM20MB603	Python Programming	MBA
71	UM20MB605	Qualitative Research Methods - MOOC	MBA



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72	UM20MB606	Data Visualization and Story telling	MBA
73	UM20MB607	Machine Learning - Unsupervised Algorithm	MBA
74	UM20MB614	Introduction to Risk Management - MOOC	MBA
75	UM20MB621	Securities Operation and Risk Management - NISM	MBA
76	UM20MB622	Fintech - IIM-K	MBA
77	UM20MB623	Legal Aspects of Human Capital Management	MBA
78	UM20MB624	Disruptive technology in Talent Acquisition	MBA
79	UM20MB627	People Analytics - MOOC	MBA
80	UM20MB630	Performance Management System	MBA
81	UM20MB631	Expatriate Management	MBA
82	UM20MB640	Applied Marketing Research	MBA
83	UM20MB641	International Marketing	MBA
84	UM20MB653	Big Data Computing - MOOC	MBA
85	UM20MB654	Equity Investment Strategies	MBA
86	UM20MB655	Equity Derivatives	MBA
87	UM20MB657	Cost and Economics in Pricing Strategy - MOOC	MBA
88	UM20MB658	Organizational Analysis - MOOC	MBA
89	UM20MB659	Ecommerce	MBA
90	UM20MB660	Management of Field Sales - MOOC	MBA
91	UE20HS101	Constitutional Law, Cyber law & Professional Ethics	Design
92	UA20BD151	Material Exploration-II	B.Design
93	UE20HS102	Environmental Studies & Life Sciences	B.Design
94	UA18BD305A	Human centered Design	B.Design
95	UA18IE311	Soft Modelling	B.Design
96	UA18IE312	Interactive Smart devices	B.Design
97	UA18BD354E	Design for Conversational UX	B.Design
98	UA18IE321	Landscape Design	B.Design
99	UA18IE322	Interior Design	B.Design
100	UA18IE323	Interaction design for mixed reality	B.Design
101	UM20BB106	Business Ethics & Corporate Social Responsibility	BBA
102	UM19BB203	Advanced Accounting	BBA
103	UM19BB257	Managerial and Costing Methods	BBA
104	UM18BH312	Business Mathematics	BBA-HEM
105	UM18BH313	Special Topic I Environmental Science	BBA-HEM
106	UM18BH315	Corporate Accounting II	BBA-HEM
107	UM18BH308	Cost Accounting	BBA-HEM
108	UM18BH309	Stock And Commodities Market	BBA-HEM
109	UM19BH265	Introduction To International Business	BBA-HEM
110	UM19BH263	Financial Accounting II	BBA-HEM



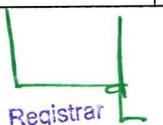
111	UM19BH261	Banking Theory And Practice	BBA-HEM
112	UM20BC109	Marketing Management	B.Com
113	UM20BC110	Business Mathematics	B.Com
114	UM20BC120	Special Topic I Environmental Science	B.Com
115	UM19BC257	Corporate Accounting II	B.Com
116	UM19BC258	Cost Accounting	B.Com
117	UM19BC259	Stock and Commodities Market	B.Com
118	UM19BC260	Introduction to International Business	B.Com
119	UM20BC157	Financial Accounting II	B.Com
120	UM20BC159	Banking Theory and Practice	B.Com
121	UM20BC160	Business Statistics-I	B.Com
122	UM20BC202	International Business	B.Com
123	UM20BC203	Principles of Financial Management	B.Com
124	UM20BC204	Principles of HRM	B.Com
125	UM20BC205	Stock and Commodities Market	B.Com
126	UM20BC206	Business and Corporate Law	B.Com
127	UM20BC207	Principles and Practices of Auditing	B.Com
128	UM20BC251	Cost Accounting	B.Com
129	UM20BC252	Taxation-I	B.Com
130	UM20BC253	Business Ethics and Corporate Social Responsibility	B.Com
131	UM20BC254	Business Analytics	B.Com
132	UM20BC211	Financial Accounting for Management	B.Com
133	UM20BC212	Financial Management-A Contemporary Approach	B.Com
134	UM20BC	Financial Modelling using Excel	B.Com
135	UM19MC251	Internship	M.Com
136	UM19MC252	Project work	M.Com
137	UM19MC253	Forex Management	M.Com
138	UM19MC254	International Banking	M.Com
139	UM19MC255	Strategic cost management-II	M.Com
140	UM20MC107	Managerial Communication	M.Com
141	UM20MC502	Statistics for managerial decision,	M.Com
142	UM20MC551	Forensic Accounting and Fraud Examination	M.Com
143	UM20MC503	Ind AS and Disclosure Practices	M.Com
144	UA20BA112E	Measured Drawing & Documentation *	B.Arch
145	UA20BA122E	Color in Architecture & Design *	B.Arch
146	UA18BA352E	Visual Communication *	B.Arch
147	UA18BA361E	Appropriate Building Technologies *	B.Arch
148	UA18BA362E	Green buildings and Rating systems *	B.Arch
149	UA16BA501	PRACTICAL TRAINING *	B.Arch



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150	UA16BA551	Architectural Design Project *	B.Arch
151	UA16BA552	Dissertation *	B.Arch
152	UA16BA553	Seminar/ activities IX *	B.Arch
153	UA16BA554	Site Exposure IX *	B.Arch
154	UL17BL401	Law of Crimes -II **	BBA-LLB
155	UL17BL402	labor and Industrial Laws-I **	BBA-LLB
156	UL17BL403	Interpretation of Statutes **	BBA-LLB
157	UL17BL404	Corporate Governance **	BBA-LLB
158	UL17BL405	Banking Law **	BBA-LLB
159	UL17BL406	Capital Market regulations **	BBA-LLB
160	UL17BL451	Labor and Industrial Laws-II **	BBA-LLB
161	UL17BL452	Law of Taxation **	BBA-LLB
162	UL17BL453	Economic Crimes **	BBA-LLB
163	UL17BL454	Competition Law **	BBA-LLB
164	UL17BL455	Insurance Law **	BBA-LLB
165	UL17BL456	Commercial Arbitration **	BBA-LLB
166	UL19BL206	Jurisprudence- I **	BBA-LLB
167	UL20BL104	English: Law, Language and Literature **	BBA-LLB
168	UL19BL255	Jurisprudence- II **	BBA-LLB
169	UL19BA202	Political Theory and Obligation **	BA-LLB
170	UL19BA203	Society and Law **	BA-LLB
171	UL19BA251	Indian Government and Politics **	BA-LLB
172	UL19BA252	Indian Economy **	BA-LLB
173	UL20BA101	Political Science and Governance **	BA-LLB
174	UL20BA102	Economics **	BA-LLB
175	UL20BA103	Sociology **	BA-LLB
176	UL20BA104	English (Law, Language and Literature) **	BA-LLB
177	BP301T	Pharmaceutical Organic Chemistry II – Theory ***	B.Pharm
178	BP302T	Physical Pharmaceutics I – Theory ***	B.Pharm
179	BP303T	Pharmaceutical Microbiology – Theory ***	B.Pharm
180	BP304T	Pharmaceutical Engineering – Theory ***	B.Pharm
181	BP305P	Pharmaceutical Organic Chemistry II – Practical ***	B.Pharm
182	BP306P	Physical Pharmaceutics I – Practical ***	B.Pharm
183	BP307P	Pharmaceutical Microbiology – Practical ***	B.Pharm
184	BP 308P	Pharmaceutical Engineering – Practical ***	B.Pharm
185	BP401T	Pharmaceutical Organic Chemistry III – Theory ***	B.Pharm
186	BP402T	Medicinal Chemistry I – Theory ***	B.Pharm
187	BP403T	Physical Pharmaceutics II – Theory ***	B.Pharm
188	BP404T	Pharmacology I – Theory ***	B.Pharm




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189	BP405T	Pharmacognosy & Phytochemistry I – Theory ***	B.Pharm
190	BP406P	Medicinal Chemistry I – Practical ***	B.Pharm
191	BP407P	Physical Pharmaceutics II – Practical ***	B.Pharm
192	BP408P	Pharmacology I – Practical ***	B.Pharm
193	BP409P	Pharmacognosy & Phytochemistry I – Practical ***	B.Pharm
194	PDA201T	Pathophysiology ***	Pharm.D
195	PDA202T	Pharmaceutical Microbiology ***	Pharm.D
196	PDA203T	Pharmacognosy & Phytopharmaceuticals ***	Pharm.D
197	PDA204T	Pharmacology-I ***	Pharm.D
198	PDA205T	Community Pharmacy ***	Pharm.D
199	PDA206T	Pharmacotherapeutics-I ***	Pharm.D
200	PDA202P	Pharmaceutical Microbiology ***	Pharm.D
201	PDA203P	Pharmacognosy & Phytopharmaceuticals ***	Pharm.D
202	PDA206P	Pharmacotherapeutics-I***	Pharm.D

- * As per Council of Architecture - COA
 - **As per Bar Council of India – BCI
 - ***As per Pharmacy Council of India-PCI
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CRITERION I

Curricular Aspects

Minutes of the Academic Council Meeting

Academic Year 2019-20



	new semester from August 1 2019	Dec. 2019; also to highlight about the orientation and bootstrap programs conducted for fresher
AC-24.8	Introspection Meeting held by Vice chancellor	Chairman to summarize the highlights of Introspection meeting held by Pro Vice Chancellor and inform members about the change proposed with respect criteria and eligibility of students for award of Dr CNR and Dr MRD merit scholarships
AC-24.9	Update on NAAC	Chairman to brief AC members about the letter correspondence between NAAC and PESU and informing NAAC about fresh application for accreditation to be submitted.
AC-24.10	Update on PhD/MTech by Research	Dean, Research to brief the members of AC about the conducting Research entrance test for new applicants- during Aug. 2019; first PhD and first MTech by research open viva
AC 24.11	Program on NEP by PESU	Secretary to highlight the program conducted by PES University on National Education Policy document circulated by MHRD and suggestions of sub-committee of PESU sent to UGC/MHRD
AC 24.12	Dr. CNR and Dr. MRD Merit Scholarship Award Ceremony	Chairman to brief AC Members about the function organized on March 2 nd , 2019 for distributing the Merit Scholarships
AC 24.13	Recommendation of list of eligible graduands to award the degree at the 4 th Convocation Ceremony of PESU – 31 Aug. 2019	Secretary to present the list of graduands for approval of AC members; students are to be awarded degree certificates on the occasion of 4 th Convocation Ceremony scheduled to be held on 31 Aug. 2019. The Fourth Convocation of PES University is scheduled to be held on August 31, 2019 (Saturday) at 11.00 AM at Dr. MRD Auditorium. Prof. Anil D Sahasrabudhe, Chairman of AICTE has kindly consented to be the chief guest
AC 24.14	Approval of Curriculum for Academic Year 2019-20	Registrar to Present the Curriculum for the Academic Year 2019-20
AC 24.15	Approval for the sanctioned Teaching Posts for the Academic Year 2019-20	Registrar to Present the number of Sanctioned Teaching Posts for the Academic Year 2019-20
AC 24.16	Stakeholders feedback Analysis of 2018-19 and status of the Action Taken Reports	Dean IQAC to present the analysis and the status of the Action Taken Reports



Approval of Syllabus, revision of syllabus, New Courses for the Academic Year 2019-20: The Members of the council resolved to approve the syllabus for the Academic year proposed by the DCC of the respective programs. The Council resolved to approve the revision of the syllabus of the following programs

1. B.Tech in Biotechnology
2. B.Tech in Civil Engineering
3. B.Tech in Computer Science & Engineering
4. B.Tech in Electrical and Electronics Engineering
5. B.Tech in Electronics and Communication Engineering
6. Bachelor of Business Administration
7. Bachelor of Business Administration - Hospitality and Event Management
8. Bachelor of Design
9. M.Tech in Electrical and Electronics
10. M.Tech in Electronics and Communication Engineering
11. Masters of Business Administration
12. Masters of Computer Application

The council resolved to approve the introduction of the new courses (List in Appendix 1) proposed by the Department Curriculum committee (BOS) of programs of study

Total New Courses approved for the Academic Year 2019-20: 276

The Council also approved the courses in the curriculum which contributed to the employability, Skill Development. The total number of such courses for the Academic Year 2019-20 is 1004

Item No. AC-24.15 of the Agenda of the TWENTY FOURTH meeting of the Academic Council held on 29 August 2019

Sanctioned Teaching Posts: The Registrar presented to the council the Sanctioned Teaching posts for the Academic Year 2017-18.

Sanctioned posts for the various programs offered by SRA were retained as per the regulations.

Other programs offered by the University were reviewed for gross enrollment ratio and the following sanctioned posts were arrived



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Appendix 1
List of New Courses Proposed

sl#	Course Code	Course Name	Program
1.	UE18BT324	Neurobiology and Neuroinformatics	B.Tech-BT
2.	UE16BT424	Health Informatics	B.Tech-BT
3.	UE16BT416	Waste management	B.Tech-BT
4.	UE18CV207	Basic Environmental Eng- 1	B.Tech-CE
5.	UE18CV255	Building Planning & Drawing - 2	B.Tech-CE
6.	UE18CV257	Basic Environmental Eng- 2	B.Tech-CE
7.	UE17CV311	Hydrology	B.Tech-CE
8.	UE17CV327A	Precast and prefabricated construction	B.Tech-CE
9.	UE17CV327B	BIM – transportation	B.Tech-CE
10.	UE17CV323	Pavement management system	B.Tech-CE
11.	UE17CV324	Remote Sensing and GIS	B.Tech-CE
12.	UE17CV331	Irrigation Engineering	B.Tech-CE
13.	UE17CV341	Pavement Analysis & Design	B.Tech-CE
14.	UE16CV421	Theory of Elasticity	B.Tech-CE
15.	UE16CV423	Mechanization in Construction	B.Tech-CE
16.	UE16CV452	Extended Three dimensional analysis of building system	B.Tech-CE
17.	UE19CV505	Finite Element Analysis of Structural Systems: Concepts and Procedures	M.Tech-CE
18.	UE19CV511	Design of Earthquake Resistant Structures	M.Tech-CE
19.	UE18CV652	Analysis and Design of structures using ETABS	M.Tech-CE
20.	UE17CS312	Database Technologies	B.Tech-CSE
21.	UE17CS324	Computational Approximation : Methods and Algorithms	B.Tech-CSE
22.	UE17CS352	Cloud Computing	B.Tech-CSE
23.	UE17CS338	Topics in Deep Learning	B.Tech-CSE
24.	UE17CS346	Advanced Computer Networks	B.Tech-CSE
25.	UE17CS347	Reconfigurable Computing	B.Tech-CSE
26.	UE17CS348	Heterogeneous Parallelism	B.Tech-CSE
27.	UE16CS403	Web Technologies II	B.Tech-CSE
28.	UE17CS415	Wireless Network Communications	B.Tech-CSE
29.	UE17CS426	Design Patterns	B.Tech-CSE
30.	UE17CS427	Autonomous Mobile Robotics	B.Tech-CSE
31.	UE19CS577	Digital Video Perception and Algorithms	M.Tech-CSE
32.	UE19CS578	Cyber Forensics	M.Tech-CSE
33.	UE19CS579	Software Security	M.Tech-CSE
34.	UE19CS584	Soft computing	M.Tech-CSE
35.	UE18CS617	Designing IoT Solutions	M.Tech-CSE
36.	UE16EC418	Robust Systems	B.Tech-ECE



37.	UE16EC451H	Multimedia Communication	B.Tech-ECE
38.	UE17EC343	Memory Design and Testing	B.Tech-ECE
39.	UE18EC204	Digital Design using HDL	B.Tech-ECE
40.	UE18EC206	Digital Design using HDL Laboratory	B.Tech-ECE
41.	UE18EC203	CMOS Analog Circuit Design	B.Tech-ECE
42.	UE18EC205	CMOS Analog Circuit Design Laboratory	B.Tech-ECE
43.	UE19EC101	Fundamentals of Electronics circuits and Systems	B.Tech-ECE
44.	UE18EC251	Control Systems	B.Tech-ECE
45.	UE18EC613	Selected Topics in Reconfigurable Computing	M.Tech-ECE
46.	UE18EC614	Artificial Neural Networks	M.Tech-ECE
47.	UE18EC663	VLSI for DSP	M.Tech-ECE
48.	UE19EC505	Advanced Engineering Mathematics	M.Tech-ECE
49.	UE19EC506	Research Methodology	M.Tech-ECE
50.	UE19EC514	Image and Video Processing	M.Tech-ECE
51.	UE19EC541	Error Control Coding	M.Tech-ECE
52.	UE19EC551	Wireless Networking	M.Tech-ECE
53.	UE19EC532	Design For Testability	M.Tech-ECE
54.	UE15EE413	DSP in Power Electronic Converters and Drives	B.Tech-EE
55.	UE16EE334	Computer Aided Design of Power Electronic Systems	B.Tech-EE
56.	UE16EE338	Data Communications	B.Tech-EE
57.	UE16EE344	PE System Design using ICs	B.Tech-EE
58.	UE16EE347	Data Acquisition Systems	B.Tech-EE
59.	UE19EE522	Design for IOT	M.Tech-EE
60.	UE19ME101	Mechanical Engineering Science	B.Tech-ME
61.	UE19ME102	Engineering Graphics	B.Tech-ME
62.	UE18ME203	Engineering Mechanics - Dynamics	B.Tech-ME
63.	UE17ME313	Automotive Systems Engineering	B.Tech-ME
64.	UE17ME314	Analysis of Mechanisms	B.Tech-ME
65.	UE17ME343	Electric and Hybrid Vehicle	B.Tech-ME
66.	UE17ME345	3D Printing	B.Tech-ME
67.	UE17ME346	CAD/CAM	B.Tech-ME
68.	UE16ME421	Aerospace Propulsion	B.Tech-ME
69.	UE19ME502	System Dynamics	M.Tech-ME
70.	UE19ME551	Advanced Computational Techniques for Engineering Applications	M.Tech-ME
71.	UE19ME521	Advanced Engineering Thermodynamics	M.Tech-ME
72.	UE18ME611	Analysis & Design of Centrifugal and Axial Flow Compressors & Pumps	M.Tech-ME
73.	UE18ME618	Theory of Rotor Dynamics	M.Tech-ME
74.	UE18ME663	Advanced Fracture Mechanics	M.Tech-ME
75.	UE18ME667	Tool Design	M.Tech-ME
76.	UE18ME668	Die Design and Manufacture	M.Tech-ME



77.	UE17MC606	Mobile App Development	MCA
78.	UE17MC623	Big Data	MCA
79.	UE18MC456A	Special Topic: Mobile App Development	MCA
80.	UE18MC456B	Special Topic: Web Design using Bootstrap and Angular	MCA
81.	UE18MC543	Unstructured Data Analytics	MCA
82.	UE18MC556	Ruby on Rails	MCA
83.	UE19MC458A	Special Topic: Technical Seminar	MCA
84.	UM19MB573	Mergers, Acquisitions And Corporate Restructuring	MBA
85.	UM19MB574	Behavioral Finance	MBA
86.	UM19MB577	Global Innovation	MBA
87.	UM19MB579	Corporate Governance And Ethics	MBA
88.	UM19MB580	Data Visualisation And Storytelling	MBA
89.	UM19MB582	Consumer Behaviors	MBA
90.	UM19MB593	Statistics For Data Science	MBA
91.	UM19MB595	Human Capital Management	MBA
92.	UM19MB596	Legal Aspects Of Hcm	MBA
93.	UM19MB603	Advanced Machine Learning	MBA
94.	UM19MB605	Domain Analytics	MBA
95.	UM19MB617	Fintech	MBA
96.	UM19MB624	Organizational Development, Diagnostics Intervention	MBA
97.	UM19MB626	Employee Engagement	MBA
98.	UM19MB633	Global Product Management	MBA
99.	UM19MB634	Martech	MBA
100.	UA16BD401	Design for Multimedia and Environment	B.Design
101.	UA16BD402	Research Methodology	B.Design
102.	UA16BD403	Essence of Traditional Indian Knowledge	B.Design
103.	UA16BD404	Design Interventions for Social Innovation	B.Design
104.	UA16BD405	Design Entrepreneurship and Ethics	B.Design
105.	UA16BD406	Activities VII	B.Design
106.	UA16BD407	Site Exposure VII	B.Design
107.	UA16BD401P	Summer Internship	B.Design
108.	UA16BD402P	Product Design Project Studio - III	B.Design
109.	UA16BD451	Introduction to Program End Product Design Project	B.Design
110.	UA16BD452	Systems Approach to Design	B.Design
111.	UA16BD401C	Communication Design Project Studio - III	B.Design
112.	UA16BD402C	Introduction to Program End Communication Design Project	B.Design
113.	UA16BD401T	Interaction Design Project Studio - III	B.Design
114.	UA16BD402T	Introduction to Program End Interaction Design Project	B.Design
115.	UA16BD451P	Program End Product Design Project	B.Design
116.	UA16BD451C	Program End Communication Design Project	B.Design
117.	UA16BD451T	Program End Interaction Design Project	B.Design



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118.	UM17BB315	Compensation Management & Legal Aspects	BBA
119.	UM19BC106	Financial Accounting	B.Com
120.	UM19BC107	Indian Financial system	B.Com
121.	UM19BC108	Marketing and Service Management	B.Com
122.	UM19BC109	Methods and Techniques of business decision	B.Com
123.	UM19BC110	Communication English	B.Com
124.	UM19BC156	Advance Financial Accounting	B.Com
125.	UM19BC157	Corporate Administration	B.Com
126.	UM19BC158	Banking law and operation	B.Com
127.	UM19BC159	Quantitative Analysis for Business Decision-I	B.Com
128.	UM19BC160	Basics of Microsoft Excel	B.Com
129.	UM19BC207	Corporate Accounting I	B.Com
130.	UM19BC208	Financial Management	B.Com
131.	UM19BC209	Management of Human Capital	B.Com
132.	UM19BC210	Business Statistics II	B.Com
133.	UM19BC220	Special Topic Tally	B.Com
134.	UM19BC301	Taxation-I	B.Com
135.	UM19BC302	Business Regulation	B.Com
136.	UM19BC303	Business Analytics	B.Com
137.	UM19BC	Principles & Practices of Auditing/ International Finance	B.Com
138.	UM19BC351	Taxation - II	B.Com
139.	UM19BC352	Goods Services Tax	B.Com
140.	UM19BC353	Indian Accounting Standards	B.Com
141.	UM19BC355	Advanced Cost Accounting/ Performance Management	B.Com
142.	UM19MC101	Monetary system	M.Com
143.	UM19MC102	International Business Practices	M.Com
144.	UM19MC103	Quantitative Techniques	M.Com
145.	UM19MC104	Managerial Economics	M.Com
146.	UM19MC105	Advanced Financial Management	M.Com
147.	UM19MC106	Human Resource Management	M.Com
148.	UM19MC107	Communication skills	M.Com
149.	UM19MC151	Risk Management	M.Com
150.	UM19MC152	Security Analysis and Portfolio Management	M.Com
151.	UM19MC153	Business Research Methods	M.Com
152.	UM19MC154	Business Ethics and Corporate Governance	M.Com
153.	UM19MC 155	Direct Tax	M.Com
154.	UM19MC156	Business Information system	M.Com
155.	UM19MC157	Micro Finance	M.Com
156.	UM19MC201	Accounting for Managerial Decision	M.Com
157.	UM19MC202	Open elective	M.Com
158.	UM19MC206	Financial Markets	M.Com
159.	UM19MC207	Financial services	M.Com



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160.	UM19MC208	Bank Management	M.Com
161.	UM19MC209	Corporate Financial Reporting	M.Com
162.	UM19MC210	Strategic Cost Management I	M.Com
163.	UM19MC211	Indirect taxes	M.Com
164.	UA16BA401	Design VII *	B.Arch
165.	UA16BA402	Building Construction Technology& Materials VII *	B.Arch
166.	UA16BA403	Urban and Regional Planning *	B.Arch
167.	UA16BA404	Professional Practice I *	B.Arch
168.	UA16BA405	Interior Design *	B.Arch
169.	UA16BA406	Research Methodology *	B.Arch
170.	UA16BA407	Vacation Assignment/ Study Tour/ Summer Term Assignment/Internship - III *	B.Arch
171.	UA16BA408	Invited talks/ Activities/ Seminar/ - VII *	B.Arch
172.	UA16BA409	Site Exposure VII *	B.Arch
173.	UA16BA451E	Contemporary Processes In Architecture *	B.Arch
174.	UA16BA452E	Building Systems Integration and Management *	B.Arch
175.	UA16BA451	Design VIII *	B.Arch
176.	UA16BA452	Introduction to Architectural Design Project *	B.Arch
177.	UA16BA453	IPR & Ethics*	B.Arch
178.	UA16BA454	Professional Practice II *	B.Arch
179.	UA16BA455	Construction Management *	B.Arch
180.	UA16BA456	Disaster Management *	B.Arch
181.	UA16BA457	Invited talks/ Activities/ Seminar/ - VIII *	B.Arch
182.	UA16BA458	Site Exposure VII *	B.Arch
183.	UA16BA459	Constitution of India & Professional Ethics *	B.Arch
184.	UL17BL301	Kannada Kali/Kannada Manaus **	BBA-LLB
185.	UL17BL302	Principles of Criminal Law **	BBA-LLB
186.	UL17BL303	Property Law **	BBA-LLB
187.	UL17BL304	Civil Procedure Code and Limitation Act **	BBA-LLB
188.	UL17BL305	Administrative Law **	BBA-LLB
189.	UL17BL306	Company Law **	BBA-LLB
190.	UL17BL351	Law of Crimes- I **	BBA-LLB
191.	UL17BL352	Intellectual Property Law **	BBA-LLB
192.	UL17BL353	Law of Evidence **	BBA-LLB
193.	UL17BL354	Public International Law **	BBA-LLB
194.	UL17BL355	Sports Law **	BBA-LLB
195.	UL17BL356	Environmental Law **	BBA-LLB
196.	UL19BA101	Political Thought and Political Thinkers - I **	BA-LLB
197.	UL19BA102	Introduction to Economics **	BA-LLB
198.	UL19BA103	Introduction to Sociology **	BA-LLB
199.	UL19LC104	English - I (Law and Language) **	BA-LLB
200.	UL19BA151	Political Thought and Political Thinkers - II **	BA-LLB



201.	UL19BA152	Macro Economics **	BA-LLB
202.	UL19BA153	Structure of Indian Society **	BA-LLB
203.	UL19LC154	English - II (Law and Literature) **	BA-LLB
204.	BP101T	Human Anatomy & Physiology I – (T) ***	B.Pharm
205.	BP102T	Pharmaceutical Analysis I – (T) ***	B.Pharm
206.	BP103T	Pharmaceutics I – (T) ***	B.Pharm
207.	BP104T	Pharmaceutical Inorganic Chemistry – (T) ***	B.Pharm
208.	BP105T	Communication Skills – (T) ***	B.Pharm
209.	BP106RBT	Remedial Biology/ ***	B.Pharm
210.	BP106RMT	Remedial Mathematics – (T) ***	B.Pharm
211.	BP107P	Human Anatomy & Physiology I – (P) ***	B.Pharm
212.	BP108P	Pharmaceutical Analysis I – (P) ***	B.Pharm
213.	BP109P	Pharmaceutics I – (P) ***	B.Pharm
214.	BP110P	Pharmaceutical Inorganic Chemistry – (P) ***	B.Pharm
215.	BP111P	Communication Skills – (P*) ***	B.Pharm
216.	BP112RBP	Remedial Biology – (P*) ***	B.Pharm
217.	BP201T	Human Anatomy & Physiology II – Theory ***	B.Pharm
218.	BP202T	Pharmaceutical Organic Chemistry I – Theory ***	B.Pharm
219.	BP203T	Biochemistry – Theory ***	B.Pharm
220.	BP204T	Pathophysiology – Theory ***	B.Pharm
221.	BP205T	Computer Applications in Pharmacy – Theory ***	B.Pharm
222.	BP206T	Environmental Sciences – Theory ***	B.Pharm
223.	BP207P	Human Anatomy & Physiology II – Practical ***	B.Pharm
224.	BP208P	Pharmaceutical Organic Chemistry I – Practical ***	B.Pharm
225.	BP209P	Biochemistry – Practical ***	B.Pharm
226.	BP210P	Computer Applications in Pharmacy – Practical***	B.Pharm
227.	PDA101T	Human Anatomy & Physiology ***	Pharm.D
228.	PDA102T	Pharmaceutics ***	Pharm.D
229.	PDA103T	Medicinal Biochemistry***	Pharm.D
230.	PDA104T	Pharmaceutical Organic Chemistry ***	Pharm.D
231.	PDA105T	Pharmaceutical Inorganic Chemistry ***	Pharm.D
232.	PDA106T	Remedial Mathematics/ Biology ***	Pharm.D
233.	PDA101P	Human Anatomy & Physiology ***	Pharm.D
234.	PDA102P	Pharmaceutics ***	Pharm.D
235.	PDA103P	Medicinal Biochemistry ***	Pharm.D
236.	PDA104P	Pharmaceutical Organic Chemistry ***	Pharm.D
237.	PDA105P	Pharmaceutical Inorganic Chemistry ***	Pharm.D
238.	PDA106P	Remedial Mathematics/ Biology ***	Pharm.D
239.	MPA101T	Modern Pharmaceutical Analytical Techniques ***	M.Pharm
240.	MPH101T	Modified Release Drug Delivery System ***	M.Pharm
241.	MPH102T	Modern Pharmaceutics***	M.Pharm
242.	MPH103T	Pharmaceutical Regulatory Affair ***	M.Pharm



243.	MPH104P	Pharmaceutics Practical I ***	M.Pharm
244.	MPA 105P - I	Pharmaceutical Analysis Practical I ***	M.Pharm
245.	MPH106S	Seminar/Assignment ***	M.Pharm
246.	MPH201T	Molecular Pharmaceutics(Nano Tech & Targeted DDS) ***	M.Pharm
247.	MPH202T	Advanced Biopharmaceutics & Pharmacokinetics ***	M.Pharm
248.	MPH203T	Computer Aided Drug Delivery System ***	M.Pharm
249.	MPH204T	Cosmetic and Cosmeceuticals ***	M.Pharm
250.	MPH205P	Pharmaceutics Practical II ***	M.Pharm
251.	MPH206P	Pharmaceutics Practical III ***	M.Pharm
252.	MPH207S	Seminar/Assignment ***	M.Pharm
253.	MPL101T	Advanced Pharmacology-I ***	M.Pharm
254.	MPL102T	Pharmacological & Toxicological Screening Methods-I ***	M.Pharm
255.	MPL103T	Cellular & Molecular Pharmacology ***	M.Pharm
256.	MPL104P	Experimental Pharmacology Practical I ***	M.Pharm
257.	MPL106S	Seminar/Assignment ***	M.Pharm
258.	MPL201T	Advanced Pharmacology II ***	M.Pharm
259.	MPL202T	Pharmacological & Toxicological Screening Methods-II ***	M.Pharm
260.	MPL203T	Principles of Drug Discovery ***	M.Pharm
261.	MPL204T	Clinical Research & Pharmacovigilance ***	M.Pharm
262.	MPL205P	Experimental Pharmacology Practical II ***	M.Pharm
263.	MPL206P	Experimental Pharmacology Practical III ***	M.Pharm
264.	MPL207S	Seminar/Assignment ***	M.Pharm
265.	MPA102T	Advanced Pharmaceutical Analysis ***	M.Pharm
266.	MPA103T	Pharmaceutical Validation ***	M.Pharm
267.	MPA104T	Food Analysis ***	M.Pharm
268.	MPA105P	Pharmaceutical Analysis Practical ***	M.Pharm
269.	MPA106S	Seminar/Assignment ***	M.Pharm
270.	MPA201T	Advanced Instrumental Analysis ***	M.Pharm
271.	MPA202T	Modern Bio-Analytical Techniques ***	M.Pharm
272.	MPA203T	Quality Control and Quality Assurance ***	M.Pharm
273.	MPA204T	Cosmetic Analysis and Evaluation ***	M.Pharm
274.	MPA205P	Pharmaceutical Analysis Practical II ***	M.Pharm
275.	MPA206P	Pharmaceutical Analysis Practical III ***	M.Pharm
276.	MPA207S	Seminar/Assignment ***	M.Pharm

- * As per Council of Architecture - COA
- **As per Bar Council of India – BCI
- ***As per Pharmacy Council of India-PCI





CRITERION I

Curricular Aspects

Minutes of the Academic Council Meeting

Academic Year 2018-19





PES UNIVERSITY
(Established under Karnataka Act No. 16 of 2013)

100 Feet Ring Road, BSK III Stage,
Bengaluru-560085
Karnataka, India

Ref: PESU/AC/2018/20(A)

MEETING NOTICE

By the direction of the Vice Chancellor, the **TWENTIETH** meeting of the **Academic Council** of PES University is convened on Thursday, the June 21, 2018 as per the details given below:

Date	Thursday, June 21, 2018
Time	11.00 AM
Venue	Office of VC, Prof. MRD Silver Jubilee Complex, PES University Campus

All the members are requested to make it convenient to attend the meeting to discuss the agenda given below:

#	Item Description	Remarks
AC-20.1	Welcome	Registrar, Secretary of AC, to welcome the members
AC-20.2	Opening remarks	The Vice-Chancellor, the Chairperson of AC, to make opening remarks
AC-20.3	Confirming minutes of the previous meeting(s)	The Secretary shall present the draft minutes of the previous meetings for confirmation
AC-20.4	Review of ATR on the previous meeting	The Secretary shall present the ATR for review by the Council
AC-20.5	Adoption of 20 credits per semester for programs as per AICTE recommendations from the Academic year 2018-19	Secretary to brief the context and request the Council to deliberate on the matter.
AC-20.6	Approval of Curriculum design for various programs of study in the university for the academic year 2018-19	The Deans and the concerned chairpersons to present the curriculum design and highlight the changes made from last year.
AC-20.7	Update on KSHEC visit to PES University	Secretary to brief the Council on the purpose and process of KSHEC visit to PES University on March 13, 2018
	Commencement of BiSEP program of GOK	Secretary to brief the Council on BiSEP program and its highlights



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Approval of Curriculum design for various programs of study in the university for the academic year 2018-19

Various Deans and concerned Chairpersons, list provided below, made a presentation on the proposed curriculum for their program of study. Each Chairperson briefed the Council about the changes that are incorporated and the philosophy of the design along with the approval of the Department Curriculum Committee (DCC or BOS).

#	Program of Study	Chairperson / Authorized person
1	BArch	Registrar
2	B.Des	Registrar
3	BTech in BT	Dr. Shanthi K
4	BTech in CV	Dr. V. Krishna Murthy
5	BTech in CSE	DR. SS Shylaja
6	BTech in ECE	Dr. M. Anuradha
7	BTech in EEE	Dr. Venugopal
8	BTech in ME	Dr. KS Sridhar
9	MTech in BT	Dr. Santhi K
10	MTech in CV	Dr. V. Krishna Murthy
11	MTech in CSE	Prof. Nitin V. Pujari
12	MTech in ECE	Dr. M. Anuradha
13	MTech in EEE	Dr. Venugopal
14	MTech in ME	Dr. KS Sridhar
15	BBA	Prof. Harish Ugraiah
16	MBA	Dr. A. Veena
17	BBA-HEM	Dr. Jayakumar
18	BBA, LLB	Dr. Sandeep Desai

Resolution: The Council resolved to approve the proposed Curriculum presented by the Chairpersons / Authorized persons for the academic year 2018-19.

Resolution :The council resolved to the approve the revision of syllabus for the following programs

1. B.Tech in Biotechnology
2. B.Tech in Civil Engineering
3. B.Tech in Computer Science & Engineering
4. B.Tech in Electrical and Electronics Engineering
5. B.Tech in Electronics and Communication Engineering
6. B.Tech in Mechanical Engineering
7. Bachelor of Business Administration
8. Bachelor of Business Administration - Hospitality and Event Management
9. M.Tech in Electrical and Electronics Engineering



10. M.Tech in Electronics and Communication Engineering
11. Master of Business Administration
12. Master of Computer Applications

The council resolved to approve the new courses (List in Appendix 1) proposed by the Department curriculum committees of programs of study

Total new Courses approved for the Academic Year 2018-19: 258

The Council also approved the courses in the curriculum which contributed to the employability, Skill Development. The total number of such courses for the Academic Year 2018-19 is 909

*Item No. AC-20.6 of the Agenda of the TWENTIETH meeting of the Academic Council held
on June 21, 2018*

Update on KSHEC visit to PES University

A team under the Chairmanship of Dr. VK Aatre (Dr. HA Ranganath and Dr. SA Kori) visited the University on March 13, 2018 and held a series of interactions with various stakeholders as well as visited various facilities maintained in the University. The Committee provided some inputs for the improvement of the University in the future.

KSHEC is yet to send the inspection report to the University.

Resolution: The Council resolved to treat the matter as noted and expressed its happiness over the visit being very smooth.

*Item No. AC-20.7 of the Agenda of the TWENTIETH meeting of the Academic Council held
on June 21, 2018*

Commencement of BiSEP program of GOK

The BiSEP program started with the admission of about 9 students and the classes commenced as per the calendar of events notified by GOK. As usual, the scholarships to students shall be provided by DBT of GOI.

Resolution: The Council resolved to approve the BiSEP program conceived, monitored and approved by GOK.

*Item No. AC-20.8 of the Agenda of the TWENTIETH meeting of the Academic Council held
on June 21, 2018*



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Appendix 1
List of New Courses Proposed

Sl#	Course Code	Course Name	Program
1	UE18BT101	Engineering Biology	B.Tech-BT
2	UE17CV203	Geoinformatics	B.Tech-CE
3	UE17CV207	Surveying Practice	B.Tech-CE
4	UE17CV207C	Infrastructure Planning	B.Tech-CE
5	UE17CV207D	Plastic Waste Management	B.Tech-CE
6	UE16CV322	Soft Computing in Civil Engineering	B.Tech-CE
7	UE16CV323	Advanced Mechanics	B.Tech-CE
8	UE16CV333	Transportation Structures	B.Tech-CE
9	UE16CV343	Environmental Impact Assessment of Transportation Projects	B.Tech-CE
10	UE15CV422	Traffic Engineering	B.Tech-CE
11	UE15CV423	Remedial Engineering	B.Tech-CE
12	UE17CV601	Project Work Phase - I	M.Tech-CE
13	UE17CV602	Advanced Design of Steel Structures	B.Tech-CE
14	UE17CV603	Internship & Seminar	B.Tech-CE
15	UE17CV651	Project Work Phase - II	B.Tech-CE
16	UE17CV652	Structural Stability Analysis – Classical & FE Approach	B.Tech-CE
17	UE17CV653	Internship II & Seminar	B.Tech-CE
18	UE18CV504	Action & Repose of a Structural System	B.Tech-CE
19	UE18CV505	Design of Storage Structures	B.Tech-CE
20	UE18CV507	Seminar 1	B.Tech-CE
21	UE18CV552	Computer Aided Analysis & Design Laboratory	B.Tech-CE
22	UE18CV553	Seminar 2	B.Tech-CE
23	UE18CV512	Theory Of Elastic Stability	B.Tech-CE
24	UE18CV522	Theory of Plates & Shells	B.Tech-CE
25	UE18CV542	Advanced Optimization Techniques	B.Tech-CE
26	UE17CS208A	Special Topic – Object oriented programming with Java	B.Tech-CSE
27	UE17CS208B	Special Topic – programming with C++	B.Tech-CSE
28	UE17CS208C	Special Topic – R Programming	B.Tech-CSE
29	UE17CS208D	Special Topic – Unix Shell Programming	B.Tech-CSE
30	UE17CS208E	Special Topic – Probability Models in Computer Science	B.Tech-CSE
31	UE17CS257A	Special Topic – Web Frameworks	B.Tech-CSE
32	UE17CS257B	Special Topic – Android Application Development	B.Tech-CSE
33	UE17CS257C	Special Topic – Secured Programming with C	B.Tech-CSE
34	UE17CS257D	Special Topic – Fine Techniques	B.Tech-CSE
35	UE17CS257E	Special Topic – MATLAB for Image Processing	B.Tech-CSE
36	UE16CS334	Multicore Computing	B.Tech-CSE
37	UE16CS336	Drone Computing	B.Tech-CSE



38	UE16CS356A	Special Topic – Linux Kernel Internals	B.Tech-CSE
39	UE16CS356B	Special Topic – programming with C++	B.Tech-CSE
40	UE16CS356C	Special Topic – Introduction to Applied Cryptography	B.Tech-CSE
41	UE16CS356D	Special Topic – Professional Skills for Software Engineers	B.Tech-CSE
42	UE16CS356E	Special Topic – programming with Java	B.Tech-CSE
43	UE15CS403	Web Technologies II	B.Tech-CSE
44	UE15CS404	Term Paper	B.Tech-CSE
45	UE15CS405	Object Oriented Programming with Java	B.Tech-CSE
46	UE15CS416	Wireless Network Communication	B.Tech-CSE
47	UE15CS427	Autonomous Mobile Robots	B.Tech-CSE
48	UE15CS431	MOOC – Human Computer Interaction	B.Tech-CSE
49	UE15CS432	MOOC – Open Source Networks	B.Tech-CSE
50	UE15CS433	MOOC – Internet of Things	B.Tech-CSE
51	UE15CS454	Research Methodology	B.Tech-CSE
52	UE15CS455	Technical Writing	B.Tech-CSE
53	UE18CS501	Computer Systems for Programmers	M.Tech-CSE
54	UE17CS612	Data Centre Networking	M.Tech-CSE
55	UE17CS614	Software Project Planning and Management	M.Tech-CSE
56	UE17CS618	Advanced Software Testing	M.Tech-CSE
57	UE17CS625	Software Architectures	M.Tech-CSE
58	UE17CS626	Business Fundamentals	M.Tech-CSE
59	UE17EC208A	Special Topic – Introduction to Eunternship	B.Tech-ECE
60	UE15EC401	Fundamentals of Antennas	B.Tech-ECE
61	UE15EC402	Embedded Systems Design	B.Tech-ECE
62	UE15EC403	Wireless Communication	B.Tech-ECE
63	UE15EC421	Radar Systems	B.Tech-ECE
64	UE15EC424	Verification of VLSI Circuits with System Verilog	B.Tech-ECE
65	UE15EC425	Pervasive Computing	B.Tech-ECE
66	UE15EC426	Speech Processing	B.Tech-ECE
67	UE15EC459	DSP Architecture	B.Tech-ECE
68	UE15EC454	Engineering Management	B.Tech-ECE
69	UE16EC313	Semiconductor Devices	B.Tech-ECE
70	UE17EC662	Antenna Design	B.Tech-ECE
71	UE17EC612	Introduction to Antenna theory	M.Tech-ECE
72	UE18EC502	Digital VLSI	M.Tech-ECE
73	UE18EC512	Analog Integrated Circuits	M.Tech-ECE
74	UE18EC552	Heterogeneous computing	M.Tech-ECE
75	UE18EC514	Image and Video Processing	M.Tech-ECE
76	UE15EE307	Programming with C (for Lateral Entry Students)	B.Tech-EE
77	UE15EE334	Design of Power Converters	B.Tech-EE
78	UE15EE335	FPGA Applications using Verilog	B.Tech-EE
79	UE15EE341	Wind Electrical Systems	B.Tech-EE



80	UE15EE373	Smart Grid Technologies	B.Tech-EE
81	UE15EE344	PE System Design using ICs	B.Tech-EE
82	UE15EE347	Introduction to Robotics	B.Tech-EE
83	UE16EE254	Generation Transmission and Distribution	B.Tech-EE
84	UE17EE207A	Introduction to MATLAB/SIMULINK	B.Tech-EE
85	UE17EE207B	Utilization of Electrical Power	B.Tech-EE
86	UE16EE311	Power Distribution Systems	B.Tech-EE
87	UE16EE312	Power Station Practice	B.Tech-EE
88	UE16EE316	Communication Engineering	B.Tech-EE
89	UE16EE317	Computer Architecture	B.Tech-EE
90	UE16EE323	Advanced Power Electronics	B.Tech-EE
91	UE16EE326	Sensors and Actuators	B.Tech-EE
92	UE16EE356A	Artificial Intelligence	B.Tech-EE
93	UE17EE423	Hybrid and electric vehicles	B.Tech-EE
94	UE16EE356B	Micro-controller Mini Project	B.Tech-EE
95	UE15EE43X	SWAYAM Online Course	B.Tech-EE
96	UE15EE44X	Research Project	B.Tech-EE
97	UE18EE504	Applied Soft Computing	M.Tech-EE
98	UE18EE522	Digital Control Systems	M.Tech-EE
99	UE18EE532	General Processor Architecture	M.Tech-EE
100	UE18EE615	Power Distribution Systems	M.Tech-EE
101	UE18EE502	Power Semiconductor Devices	M.Tech-EE
102	UE18ME102	Engineering Graphics	B.Tech-ME
103	UE16ME304	Solid Modelling	B.Tech-ME
104	UE16ME356	CAM and Automation Laboratory	B.Tech-ME
105	UE16ME343	Hybrid and Fuel Cell Vehicles	B.Tech-ME
106	UE15ME421	Aircraft Propulsion	B.Tech-ME
107	UC16MC602	Cloud Computing	MCA
108	UC16MC606	Skill Reinforcement Lab	MCA
109	UC16MC612	Module Development using NginX	MCA
110	UC16MC622	Module Development using Apache	MCA
111	UC16MC623	Machine Learning	MCA
112	UC16MC626	IoT Application Development	MCA
113	UE17MC455	E-Commerce Application Development	MCA
114	UE17MC458	Web Lab 2	MCA
115	UE18MC454	Macro Programming in Spreadsheets	MCA
116	UM18MB576	Entrepreneurship-Foundation	MBA
117	UM18MB579	Financial Statement Analysis	MBA
118	UM18MB590	Digital and Social media strategy-1	MBA
119	UM18MB591	Digital and Social media strategy-2	MBA
120	UM18MB596	R Programming - Foundation	MBA
121	UM18MB597	Python Programming - Foundation	MBA



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122	UM18MB604	Machine Learning using Python	MBA
123	UM18MB606	People Analytics	MBA
124	UM18MB614	Indirect Taxes (US) & Transfer Pricing	MBA
125	UM18MB626	Strategic HR Measurements and Analytics	MBA
126	UM18MB627	Entrepreneurship - Advanced	MBA
127	UM17MB570	IIT/NISM/IUP Residential Program	MBA
128	UM17MB572	Financial Econometrics	MBA
129	UM17MB573	Design Thinking	MBA
130	UM17MB574	Product Management	MBA
131	UM17MB575	Advertising & Marketing Communications	MBA
132	UM17MB576	Digital Transformation	MBA
133	UM17MB577	Personal Growth & Interpersonal Effectiveness	MBA
134	UM17MB578	Financial Products and Services	MBA
135	UM17MB591	Sales and Distribution Management	MBA
136	UM17MB592	International Taxation-1	MBA
137	UM17MB593	International Taxation-2	MBA
138	UM17MB601	Data Management	MBA
139	UM17MB602	Introduction to Statistics with R	MBA
140	UM17MB603	Predictive Analytics	MBA
141	UM17MB604	Social Media Analytics	MBA
142	UM17MB605	Data Visualization	MBA
143	UM17MB606	Capital Market Operations	MBA
144	UM17MB607	Fundamentals of Technical Analysis	MBA
145	UM17MB608	Mutual Funds and Fixed Income Securities	MBA
146	UM17MB609	Wealth Management	MBA
147	UM17MB613	Corporate Valuation	MBA
148	UM17MB614	Financial Derivatives	MBA
149	UM17MB616	Developing an Entrepreneurial Mindset	MBA
150	UM17MB617	Building Start ups	MBA
151	UM17MB618	Intellectual Capital and Innovation	MBA
152	UM17MB619	Talent Acquisition	MBA
153	UM17MB620	Talent Development and Retention	MBA
154	UM17MB621	Compensation and Reward Management	MBA
155	UM17MB622	Digital Marketing	MBA
156	UM17MB627	Selling Today	MBA
157	UA16BD301	Seminar/ Activities V	B.Design
158	UA16BD302	Site Exposure V	B.Design
159	UA16BD303	Vacation Assignment / Study Tour II	B.Design
160	UA16BD301P	Product Design Project Studio - 1	B.Design
161	UA16BD302P	Product Planning, and Marketing Management	B.Design
162	UA16BD303P	Basic Computing and Design	B.Design
163	UA16BD304P	Mechatronics	B.Design



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164	UA16BD305P	Introduction to Electricals and Electronics	B.Design
165	UA16BD331P	Furniture Design	B.Design
166	UA16BD332P	Toy Design	B.Design
167	UA16BD301C	Communication Design Project Studio I	B.Design
168	UA16BD302C	3D Animation Lab - I	B.Design
169	UA16BD303C	Infographics - I	B.Design
170	UA16BD304C	Visual Effects - I	B.Design
171	UA16BD305C	Packaging and Visual Communication	B.Design
172	UA16BD331+	Visual Ergonomics	B.Design
173	UA16BD332C	Illustrations and Storytelling	B.Design
174	UA16BD301T	Interaction Design Project Studio I	B.Design
175	UA16BD302T	UI/UX - I	B.Design
176	UA16BD303T	Designing Interactive Experiences	B.Design
177	UA16BD304T	Customer Experience and Virtual Reality	B.Design
178	UA16BD305T	Responsive Applications and Coding	B.Design
179	UA16BD331+	Visual Ergonomics	B.Design
180	UA16BD332T	Design for Multimedia and Environment	B.Design
181	UA16BD351	Design, Innovation and Management	B.Design
182	UA16BD352	Seminar/ Activities VI	B.Design
183	UA16BD353	Site Exposure VI	B.Design
184	UA16BD351P	Product Design Project Studio - 2	B.Design
185	UA16BD352P	Vehicle Design	B.Design
186	UA16BD353P	Design for Manufacturability and Cost	B.Design
187	UA16BD354P	CAE in Product Design - II	B.Design
188	UA16BD341P	Transportation Planning	B.Design
189	UA16BD342P	Packaging Design	B.Design
190	UA16BD351C	Communication Design Project Studio II	B.Design
191	UA16BD352C	Infographics - II	B.Design
192	UA16BD353C	Visual Effects - II	B.Design
193	UA16BD354C	3D Animation Lab - II	B.Design
194	UA16BD341+	Applied Ergonomics	B.Design
195	UA16BD342C	Storyboarding Techniques	B.Design
196	UA16BD351T	Interaction Design Project Studio II	B.Design
197	UA16BD352T	UI/UX - II	B.Design
198	UA16BD353T	Artificial Intelligence, Augmented Reality	B.Design
199	UA16BD354T	Technology Trends and Analysis	B.Design
200	UA16BD341+	Applied Ergonomics	B.Design
201	UA16BD342T	Interactive Smart Devices	B.Design
202	UA17BD252T	Coding	B.Design
203	UA17BD253T	Human Computer Interaction II	B.Design
204	UA17BD221T	User Interface Studies	B.Design
205	UA17BD222T	Cognitive Studies	B.Design



206	UM18BB112	Accounting Lab	BBA
207	UM17BB264	Innovations in HR Practice	BBA
208	UM17BB270	Essentials of Family Business Mgmt	BBA
209	UM17BB271	Managing Innovations	BBA
210	UM17BB272	Social Entrepreneurship & Mgmt	BBA
211	UM18BB153	Digital Transformation Strategy	BBA
212	UM18BH258	CULINARY OPERATIONS PRACTICAL	BBA-HEM
213	UM18BH259	DISTILLED BEVERAGES PRACTICAL	BBA-HEM
214	UM18BH260	FRONT OFFICE MANAGEMENT PRACTICAL	BBA-HEM
215	UM18BH261	ACCOMMODATION AESTHETICS PRACTICAL	BBA-HEM
216	UM17BH307	CULINARY MANAGEMENT – PRACTICAL	BBA-HEM
217	UM17BH308	FOOD & BEVERAGE MANAGEMENT PRACTICAL	BBA-HEM
218	UM17BH309	FRONT OFFICE MANAGEMENT PRACTICAL	BBA-HEM
219	UM17BH310	ACCOMMODATION MANAGEMENT PRACTICAL	BBA-HEM
220	UM17BH311	EVENT MANAGEMENT	BBA-HEM
221	UM17BH356	EVENT CURATION	BBA-HEM
222	UA18BA101	Visual Arts & Basic Design I *	B.Arch
223	UA18BA111E	Photography & Videography *	B.Arch
224	UA16BA301	Design V *	B.Arch
225	UA16BA302	Building Construction Technology & Materials V *	B.Arch
226	UA16BA303	Contemporary Architecture *	B.Arch
227	UA16BA304	Sociology & Economics *	B.Arch
228	UA16BA305	Structures III *	B.Arch
229	UA16BA306	Building Services III(HVAC, lifts & fire fighting) *	B.Arch
230	UA16BA307	Landscape Design *	B.Arch
231	UA16BA308	Summer Term Assignment/ Study Tour/ Vacation Assignment-II *	B.Arch
232	UA16BA309	Seminar /activities V *	B.Arch
233	UA16BA310	Site Exposure V *	B.Arch
234	UA16BA331	Furniture Design *	B.Arch
235	UA16BA332	Product Design *	B.Arch
236	UA16BA351	Design VI *	B.Arch
237	UA16BA352	Building Construction Technology & Materials VI *	B.Arch
238	UA16BA353	Estimation & Costing *	B.Arch
239	UA16BA354	Working Drawing *	B.Arch
240	UA16BA355	Structures IV *	B.Arch
241	UA16BA356	Building Services IV(Acoustics)*	B.Arch
242	UA16BA357	Environmental Studies *	B.Arch
243	UA16BA358	Seminar/activities VI *	B.Arch
244	UA16BA359	Site Exposure VI *	B.Arch
245	UA16BA341	Architectural Design with Steel *	B.Arch
246	UA16BA342	Architectural Design with Glass *	B.Arch



247	UL17BL201	Business Statistics **	BBA-LLB
248	UL17BL202	Human Resources Management **	BBA-LLB
249	UL17BL203	Business Environment **	BBA-LLB
250	UL17BL204	Constitutional Law-I **	BBA-LLB
251	UL17BL205	Family Law – I **	BBA-LLB
252	UL17BL206	Consumer Protection Law **	BBA-LLB
253	UL17BL251	Strategic Management **	BBA-LLB
254	UL17BL252	Corporate Accounting **	BBA-LLB
255	UL17BL253	Business Communication **	BBA-LLB
256	UL17BL254	Constitutional Law – II **	BBA-LLB
257	UL17BL255	Family Law – II **	BBA-LLB
258	UL17BL256	Jurisprudence **	BBA-LLB

- * As per Council of Architecture - COA
 - **As per Bar Council of India - BCI
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CRITERION I

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Academic Year 2017-18



		and Faculty of commerce, Economics and Management
AC-16.7	Curriculum Structure and Syllabi for various programs and courses submitted by DCC's	Secretary to brief about the curriculum structure and the detailed syllabi of all programs of study – for ratification by AC
AC-16.8	Integrated/Double degrees	Chairman to appraise the members about the Integrated/Dual degree programs
AC-16.9	PESSAT-2017; Entrance Test for new admissions for the year, 2017-18	Secretary to inform members about the Entrance Test for new admissions for the year, 2017 and number of registrations for the PESSAT.
AC-16.10	PhD entrance test and interviews	CoE to brief council members about the PhD applications received and the entrance test scheduled
AC-16.11	PhD Supervisors	CoE to brief about the applications received for PhD supervision.
AC-16.12	Aug. 12 th , 2017: Convocation & Extra-ordinary AC Meeting	Chairman to appraise of the university convocation scheduled on 12 th Aug. 2017 and invite members for the extra-ordinary meeting on 11 th Aug 2017 to approve of the students admitted to convocation.
AC-16.13	Sanctioned Teaching posts for the session Academic session 2017-18	Register to Present the sanctioned teaching posts for the Academic Year 2017-18
AC-16.14	Stake holders feedback Analysis and status of the Action Taken Reports	Dean iQAC to present the analysis and the status of Action Taken Report
AC-16.15	Concluding Remarks	Vice-Chancellor to present the concluding Remarks for the meeting
	Vote of Thanks	Secretary to propose the vote of thanks

Secretary, Academic Council

TO	1	All members of the Academic Council of PES University
	2	The Secretary to the Chancellor for information
	3	The Secretary to the Proc Chancellor for information
	4	The Secretary to the Vice Chancellor
	5	The Finance Officer, PES University, for necessary action
	6	The Officer, Maintenance PES University, for necessary arrangements



4. B.Tech in Mechanical Engineering
5. Bachelor of Business Administration
6. Bachelor of Business Administration - Hospitality and Event Management
7. M.Tech in Electrical and Electronics Engineering
8. Masters of Computer Applications

The council approved the New Courses for the Academic Year 2017-2018 (List Given in Appendix 1) proposed by the Department Curriculum Committees of programs of Study

Total New Courses approved for the Academic Year 2017-2018: 160

The Council also approved the courses in the curriculum which contributed to the employability, Skill Development. The total number of such courses for the Academic Year 2017-18 is 804

Item No. AC-16.8 of the Agenda of the Sixteenth meeting of the Academic Council held on April 1st, 2017.

Integrated/Double degrees

The Vice-Chancellor and the Chairman appraised the members about the integrated and Dual degree programs which will come into force in 2019 onwards since some foreign students have shown interest to have integrated and dual degrees in that 3.5 years of study in India and 1.5 years in a foreign University that will have a MoU with PES University. Dr Jagadeesh mentioned that since it is a future proposal we could wait and let a few batches from the University graduate out and the issue could be proposed at a later point in time.

Resolution: The members resolved to approve the proposal in principle and details be presented for approval whenever concrete steps to introduce integrated/double degrees are taken.

Item No. AC-16.9 of the Agenda of the Sixteenth meeting of the Academic Council held on April 1st, 2017.

PESSAT-2017 Entrance test for new admissions for the year, 2017-18

The Vice Chancellor informed the AC members about scheduling of entrance test PESSAT for new admissions for the year 2017-18; so far, 10134 registrations have been done for BTech programs of the university. AC members were also given a table depicting the number of registrations according to the program of study as an annexure. The info sessions are being conducted fortnightly once, on Sundays in the campus for which parents



Appendix 1
List of New Courses Approved

SI#	Course Code	Course Name	Program
1	UE15BT324	Python	B.Tech-BT
2	UE15BT336	Biosensors	B.Tech-BT
3	UE15BT314	Microarray technology	B.Tech-BT
4	UE15BT315	Bioanalytical Instrumentation	B.Tech-BT
5	UE15BT324	Python	B.Tech-BT
6	UE15BT336	Biosensors	B.Tech-BT
7	UE15BT341	Microbial rDNA Technology	B.Tech-BT
8	UE14BT416	Environmental toxicology	B.Tech-BT
9	UE15BT344	Systems biology	B.Tech-BT
10	UE14BT426	Bioremediation & waste water treatment Technology	B.Tech-BT
11	UE14CV401	Construction Planning and Methods	B.Tech-CE
12	UE14CV402	Estimation and Costing	B.Tech-CE
13	UE14CV403	Transportation Engineering - Railways, Airport	B.Tech-CE
14	UE14CV404	Environmental Engineering Laboratory	B.Tech-CE
15	UE14CV405	Extensive Survey Project	B.Tech-CE
16	UE14CV406	Design & Detailing of Steel Structures Laboratory	B.Tech-CE
17	UE14CV411	Environmental Engineering Sewage Treatment and Sanitary Engineering	B.Tech-CE
18	UE14CV412	Finite Element Method & Applications	B.Tech-CE
19	UE14CV413	Integrated River Basin Project	B.Tech-CE
20	UE14CV421	Design of Pavement for Highways & Runways	B.Tech-CE
21	UE14CV422	Advanced Construction Technology	B.Tech-CE
22	UE14CV423	Structural Dynamics	B.Tech-CE
23	UE14CV341	Design of Pre stressed Concrete Structures	B.Tech-CE
24	UE14CV342	Advanced RCC	B.Tech-CE
25	UE14CV451	Research Article Writing	B.Tech-CE
26	UE14CV452	ETABS (Applicable to Lateral Entry Students)	B.Tech-CE
27	UE14CV490	Project Work	B.Tech-CE
28	UE14CV453	Environmental Impact Assessment	B.Tech-CE
29	UE14CV454	Tall Structures-Behaviour and analysis	B.Tech-CE
30	UE14CV455	Quality & Safety Management	B.Tech-CE
31	UE14CV456	Rain Water Harvesting	B.Tech-CE
32	UE15CV312	Numerical Methods in Civil Engineering	B.Tech-CE
33	UE15CV313	Structural Dynamics	B.Tech-CE
34	UE15CV323	Air and Noise Pollution	B.Tech-CE
35	UE15CV343	Occupational Health and Safety	B.Tech-CE
36	UE17CV501	Soft Computing in Civil Engineering	M.Tech-CE
37	UE17CV502	Environmental Impact Assessment	M.Tech-CE
38	UE17CV503	Bridge Engineering	M.Tech-CE



39	UE17CV504	Continuum Mechanics – Classical & FE Approach	M.Tech-CE
40	UE17CV505	Computational Structural Mechanics	M.Tech-CE
41	UE17CV506	Structural Dynamics	M.Tech-CE
42	UE17CV551	Research Methodology: Methods & Techniques	M.Tech-CE
43	UE17CV552	Computer aided Analysis and Design	M.Tech-CE
44	UE17CV561	Design of Earthquake Resistant Structures	M.Tech-CE
45	UE17CV562	Repair & Rehabilitation of Structures	M.Tech-CE
46	UE17CV571	Design of Prestressed Concrete Structures	M.Tech-CE
47	UE17CV572	Design of Structural Systems for Tall Buildings	M.Tech-CE
48	UE17CV581	Advanced Design of R C Structures	M.Tech-CE
49	UE17CV582	Design of Precast and composite Structures	M.Tech-CE
50	UE17CV591	Design of Stack, Towers & Storage Structures	M.Tech-CE
51	UE17CV592	Analysis of Plates - Classical & FE Approach	M.Tech-CE
52	UE14CS417	Computer Vision	B.Tech-CSE
53	UE14CS421	Information Security	B.Tech-CSE
54	UE14CS422	Web Services	B.Tech-CSE
55	UE14CS453	Advanced Machine Learning	B.Tech-CSE
56	UE14CS458	Introduction to Business	B.Tech-CSE
57	UE15EE313	Solar Photovoltaic Systems	B.Tech-EE
58	UE15EE314	Power Conversion in Renewable Energy Systems	B.Tech-EE
59	UE15EE315	Measurements and Instrumentation	B.Tech-EE
60	UE15EE322	Advanced Electromagnetic Theory	B.Tech-EE
61	UE15EE326	Digital Instrumentation	B.Tech-EE
62	UE17EE624	Digital VLSI System Design and its Implementation Using Verilog	M.Tech-EE
63	UE14EC411	Wireless Network Design	B.Tech-EC
64	UE15EC343	Low Power VLSI Design	B.Tech-EC
65	UE17EC581	Wireless Network Architectures	M.Tech-EC
66	UE16ME203	Mechanics of Solids	B.Tech-ME
67	UE16ME255	Computer Aided Machine Drawing-I	B.Tech-ME
68	UE15ME302	Principles of Energy Conversion	B.Tech-ME
69	UE15ME311	Aerospace Structures	B.Tech-ME
70	UE15ME312	Power Plant Engineering	B.Tech-ME
71	UE15ME313	Automotive Systems Engineering	B.Tech-ME
72	UE15ME314	Analysis of Mechanisms	B.Tech-ME
73	UE15ME344	Theory of Plasticity	B.Tech-ME
74	UE15ME345	Additive Manufacturing	B.Tech-ME
75	UE15ME346	CAD/CAM	B.Tech-ME
76	UE15IE341	Computational Material Science	B.Tech-ME
77	UE14ME401	Design of Machine Elements II	B.Tech-ME
78	UE14ME402	Control Engineering	B.Tech-ME
79	UE14ME403	Metal Forming Processes	B.Tech-ME



80	UE14ME404	Mechanical Vibration and Control Engineering Laboratory	B.Tech-ME
81	UE14ME405	Mechatronics and Automation Laboratory	B.Tech-ME
82	UE14IE401	Basics of Research Methodology (Lateral Entry Students)	B.Tech-ME
83	UE14ME411	Introduction to Aerodynamics	B.Tech-ME
84	UE14ME412	Thermal Management of Electronic Packages and Systems	B.Tech-ME
85	UE14ME413	Hydraulics and Pneumatics	B.Tech-ME
86	UE14ME415	Fatigue Analysis	B.Tech-ME
87	UE14ME416	Surface Engineering	B.Tech-ME
88	UE14ME422	Refrigeration and Air-Conditioning	B.Tech-ME
89	UE14ME423	Vehicle Vibration and Acoustics	B.Tech-ME
90	UE14ME424	Fracture Mechanics	B.Tech-ME
91	UE14ME425	Fundamentals of Tribology	B.Tech-ME
92	UE14ME426	Product Design and Manufacturing	B.Tech-ME
93	UE14ME490	Project Work	B.Tech-ME
94	UE14ME452	Seminar: Presentation and Communication Skills (Lateral Entry Students)	B.Tech-ME
95	UE17MA201	Engineering Mathematics - III	B.Tech-ME
96	UE15ME414	Motorcycle Dynamics	B.Tech-ME
97	UE15ME304	Computer Aided Machine Drawing - II	B.Tech-ME
98	UE15IE311	Probabilistic Methods and Engineering Simulations	B.Tech-ME
99	UE15ME343	Hybrid and Fuel Cell Vehicles	B.Tech-ME
100	UE14ME414	Two Wheeler Technology	B.Tech-ME
101	UE14ME421	Jet and Rocket propulsion	B.Tech-ME
102	UE14ME451	Engineering Economics	B.Tech-ME
103	UC14MC611	Web Services	MCA
104	UC14MC621	Web Content Management	MCA
105	UC15MC506	Network Lab	MCA
106	UC15MC551	Software Testing & Automation	MCA
107	UC16MC521	Web Architecture	MCA
108	UC16MC523	Introduction to Data Science	MCA
109	UC16MC524	Data Preparation and Analysis	MCA
110	UC16MC532	User Experience and Design	MCA
111	UM16MB608	Banking and Financial Services	MBA
112	UM16MB616	Business Analytics	MBA
113	UM16MB618	Managerial competencies and Career development	MBA
114	UM16MB619	Performance management and competency mapping	MBA
115	UM16MB623	OD & Consulting	MBA
116	UM16MB625	Learning and Development	MBA
117	UA17BA106	Visual Arts, Photography, & Videography	B.Design
118	UA18BA156	Introduction to Computers, Digital Graphics & Art	B.Design



119	UA16BD252C	Web Design and Development	B.Design
120	UA18BD353E	Set Design	B.Design
121	UA16BD342T	Interactive Smart Devices	B.Design
122	UA18BA101	Visual Arts & Basic Design I	B.Design
123	UA18BA111E	Photography & Videography	B.Design
124	UA16BD201	Design History	B.Design
125	UA16BD202	Design Methods and Creativity	B.Design
126	UA16BD203	Vacation Assignment/Study Tour I	B.Design
127	UA16BD204	Activities III	B.Design
128	UA16BD205	Site Exposure III	B.Design
129	UA16BD206+	Graphic Design	B.Design
130	UA16BD201P	Product Design and Development	B.Design
131	UA16BD202P	Material Selection and Manufacturing Processes	B.Design
132	UA16BD203P	Form Studies and Sculpting	B.Design
133	UA16BD211P	Design Math	B.Design
134	UA16BD212P	Digital Solid Sculpting	B.Design
135	UA16BD201C	Introduction to Animation	B.Design
136	UA16BD202C	Introduction to Film Making	B.Design
137	UA16BD211C	Fashion Communication	B.Design
138	UA16BD212C	Printing Technologies	B.Design
139	UA16BD201T	Game Design	B.Design
140	UA16BD202T	Human Computer Interaction	B.Design
141	UA16BD211T	User Experience Studies	B.Design
142	UA16BD212T	Space Design	B.Design
143	UA16BD251	Contemporary Design	B.Design
144	UA16BD252	Activities IV	B.Design
145	UA16BD253	Site Exposure – IV	B.Design
146	UA16BD254+	Advanced Graphic Design	B.Design
147	UA16BD251P	Advanced Design Methods and Form Studies	B.Design
148	UA16BD252P	CAE in Product Design I	B.Design
149	UA16BD253P	Mechanism Design	B.Design
150	UA16BD254P	Ergonomics	B.Design
151	UA16BD221P	Color Design	B.Design
152	UA16BD222P	Digital Surface Sculpting	B.Design
153	UA16BD251C	Advanced Animation	B.Design
154	UA16BD252C	Web Design and Development	B.Design
155	UA16BD253C	Film Studies	B.Design
156	UA16BD221C	Brand Communication	B.Design
157	UA16BD222C	Photo Journalism	B.Design
158	UA16BD251T	Advanced Game Design	B.Design
159	UA16BD252T	Coding	B.Design
160	UA16BD253T	Human Computer Interaction II	B.Design
161	UA16BD221T	User Interface Studies	B.Design
162	UA16BD222T	Cognitive Studies	B.Design

163	UM15BB309	International Logistics Management	BBA
164	UM17BB153	Information Technology in Business	BBA
165	UA16BA201	Design III *	B.Arch
166	UA16BA202	Building Construction Technology & Materials III *	B.Arch
167	UA16BA203	Theory of Architecture I *	B.Arch
168	UA16BA204	History of Art, Architecture & Design III *	B.Arch
169	UA16BA205	Structures I *	B.Arch
170	UA16BA206	Building Services I(Surveying & Leveling, water supply & Sanitation) *	B.Arch
171	UA16BA207	Computers in Architecture I *	B.Arch
172	UA16BA208	Summer Term Assignment/ Study Tour *	B.Arch
173	UA16BA209	Invited talks/ activities / Seminar III *	B.Arch
174	UA16BA210	Activities/ Site Exposure III *	B.Arch
175	UA16BA211	Vernacular Design *	B.Arch
176	UA16BA212	Conservation *	B.Arch
177	UA16BA251	Design IV *	B.Arch
178	UA16BA252	Building Construction Technology & Materials IV *	B.Arch
179	UA16BA253	Theory of Architecture I *	B.Arch
180	UA16BA254	Climate Responsive Architecture *	B.Arch
181	UA16BA255	Structures II *	B.Arch
182	UA16BA256	Building Services II(Electrical services & illumination) *	B.Arch
183	UA18BA257	Computers in Architecture II *	B.Arch
184	UA16BA258	Invited talks/ activities / Seminar IV *	B.Arch
185	UA16BA259	Activities/ Site Exposure IV *	B.Arch
186	UA16BA221	Energy Efficient Design *	B.Arch
187	UA16BA222	Material Efficient Design *	B.Arch
188	UL17BL101	English – Law and Language **	BBA-LLB
189	UL17BL102	Legal Methods & Legal Systems **	BBA-LLB
190	UL17BL103	General Principles of Contract **	BBA-LLB
191	UL17BL104	Principles and Practices of Management **	BBA-LLB
192	UL17BL105	Managerial Economics**	BBA-LLB
193	UL17BL106	Principles and Practices of Financial Accounting **	BBA-LLB
194	UL17BL151	English -II Law and Literature **	BBA-LLB
195	UL17BL152	Law of Contracts-II **	BBA-LLB
196	UL17BL153	Law of Tort, Motor Vehicles and Consumer Protection Laws**	BBA-LLB
197	UL17BL154	Fundamental of Marketing Management **	BBA-LLB
198	UL17BL155	Managerial Psychology **	BBA-LLB
199	UL17BL156	Cost and Management Accounting **	BBA-LLB

• * As per Council of Architecture - COA

**As per Bar Council of India - BCI

