

F.E. TO B.E. PROG.
EXAM MAR-2022



PUNYASHLOK AHILYADEVI HOLKAR SOLAPUR UNIVERSITY, SOLAPUR

EXAM OF 2022
SEMESTER PATTERN EXAMINATION

**FINAL PROGRAM OF THE BACHELOR OF ENGINEERING EXAMINATIONS IN THE BRANCHESMAR -
2022 EXAMINATION TO BE HELD IN JUNE-2022**

[1] CIVIL ENGINEERING [2] MECHANICAL ENGINEERING [3] ELECTRONICS ENGINEERING
[4] ELECTRONICS & TELE-COMM. [5] COMPUTER SCI & ENGG [6] INFORMATION TECHNOLOGY
[7] ELECTRICAL ENGINEERING [8] BIO-MEDICAL ENGINEERING [9] ELECTRICAL&ELECTRONICSENGG

1. Student should see their Seat No. and Name in the Name list and mistakes if any should be communicate to this office immediately. All candidates are requested to confirm their Examination Seat No. as well as place of examination on the Notice Board of the University/College mentioned below at least two days before the date of Examination. The candidate should write correct Seat No. on each answer book. If candidate writes wrong Seat No. on answer Book the performance of such subject will not be considered.
2. Candidate are requested to be present at their respective places of the Examination **FIFTEEN MINUTES** before the time starting of the first paper and **TEN MINUTES** before the time starting of each subsequent paper. Candidates are forbidden to take any book or paper into the Examination Hall.
3. **Important Note:** Code Numbers given in the Bracket are Computer Code of respective Subjects, Students should mention these Code Numbers on Answer Books with Name of the Subject. Also write these Code Numbers on JSR (Junior Supervisor Report) and related documents.
4. All the Candidates are asked to follow the timely instructions given by University in accordance with the examinations methodology.

The Written Examinations will be held at the following places:

Sr. No.	Center	College Abbreviation	Place
1	Solapur	BMIT	Brahmdevdada Mane Institute of Technology
2		NBNSCOE	N.B.Navale Sinhgad College of Engg., Kegaon
3	Pandharpur	SCOEK	S.K.N. Sinhgad College of Engg. Korti
4	Akluj	SMPIT	S.M. Shankarrao Mohite-Patil Inst. of Tech. and Research, Akluj
5	Barshi	MITCORER	MIT College of Railway Engineering and Research, Jamgaon, Barshi

Day & Date	Sr. No.	<u>F.E. Part – I (w.e.f. June 2016)</u> (CBCS Old PATTERN JUNE-2016) Time: 09.00 am to 10.00 am
Wednesday 03/08/2022	1	Engineering Mathematics-I (704113)
Thursday 04/08/2022	2	Applied Mechanics (704114)
Friday 05/08/2022	3	Basic Electrical Engineering (704115)
Sunday 07/08/2022	4	Basic Mechanical Engineering (704116)

Day & Date	Sr. No.	<u>F.E. Part – II (w.e.f. Nov 2016)</u> *(CBCS Old PATTERN JUNE-2016) Time: 11.00 am to 12.00 pm
Tuesday 02/08/2022	5	Engineering Mathematics - II (704123)
Wednesday 03/08/2022	6	Basic Civil Engineering (704125)
Thursday 04/08/2022	7	Basic Electronics (704127)
Friday 05/08/2022	8	Engineering Graphics (704124)
Sunday 07/08/2022	9	Engg. Physics –I & Engg. Physics-II (704111)/ (704121)
Monday 08/08/2022	10	Engg. Chemistry –I & Engg. Chemistry-II (704112)/ (704122)

Branch-1: Civil Engineering–(Civil)

Day & Date	Sr. No.	S.E. Part – I (w.e.f. June 2017) (CBCS Old PATTERN JUNE-2016) Time: 01:00 p.m. to 02:00 p.m
Thursday 21/07/2022	11	Concrete Technology (7043211)
Friday 22/07/2022	12	Structural Mechanics - I (7043212)
Saturday 23/07/2022	13	Surveying – I (7043213)
Sunday 24/07/2022	14	Building Construction & Drawing (7043214)
Monday 25/07/2022	15	Fluid Mechanics – I (7043215)
Tuesday 26/07/2022	16	Engg. Geology (7043216)

Day & Date	Sr. No.	S.E. Part – II (w.e.f. of Nov 2017) (CBCS PATTERN JUNE-2016) Time: 03:00 p.m. to 04:00 p.m
Wednesday 27/07/2022	17	Structural Mechanics - II (7043221)
Thursday 28/07/2022	18	Surveying – II (7043222)
Friday 29/07/2022	19	Building Planning & Design (7043223)
Saturday 30/07/2022	20	Fluid Mechanics - II (7043224)
Sunday 31/07/2022	21	Water Resources Engg - I (7043225)
Tuesday 02/08/2022	22	Engg. Math - III (7043226)

Day & Date	Sr. No.	T.E. Part – I (w.e.f. June 2018) (CBCS PATTERN JUNE-2016) Time: 09:00 a.m. to 10:00 a.m
Thursday 14/07/2022	23	Design of Steel Structures (7043311)
Friday 15/07/2022	24	Geotechnical Engg.- I (7043312)
Saturday 16/07/2022	25	Environmental Engg.- I (7043313)
Sunday 17/07/2022	26	Water Resources Engg. – II (7043314)
Monday 18/07/2022	27	Transportation Engg.-I (7043315)
Tuesday 19/07/2022	28 29 30 31 32	Self Learning (HSS) a) Introduction of Sociology(7043104) b) Professional Ethics & Human Values(7043105) c) Economics(7043101) d) Stress & Coping(7043103) e) Intellectual Property Rights for Tech. Devept and Mgnt(7043102)

Day & Date	Sr. No.	T.E. Part – II (Neww.e.f. Nov. 2018) (CBCS PATTERN JUNE-2016) Time: 11.00 am to 12.00 pm
Thursday 14/07/2022	33	Structural Mechanics – III (7043321)
Friday 15/07/2022	34	Geotechnical Engg. – II (7043322)
Saturday 16/07/2022	35	Environmental Engg. – II (7043323)
Sunday 17/07/2022	36	Engineering Management – I (7043324)
Monday 18/07/2022	37 38 39 40 41 42 43 44 45	Elective-I 1.Advanced Design of Steel Structures (7043328) 2.Industrial Waste Treatment (7043329) 3.Water Power Engineering (7043330) 4.Advanced Concrete Technology (7043331) 5.ReliabilityEngineering (7043332) 6.Finite Element Method (7043333) 7.Experimental Stress Analysis (7043334) 8.Optimization Techniques (7043335) 9.Disaster Management (7043336)
Tuesday 19/07/2022	46 47 48 49 50	Self Learning (Technical) a) Geosynthetics &rein forced soil structures (7043337) b) Pavement Analysis and Design(7043338) c) Planning for Sustainable Development (7073339) d) TQM and MIS in Civil Engineering (7073340) e) Earthquake Resistant non Engineered f) Construction (7073341)

Day & Date	Sr. No.	B.E. Part – I (New w.e.f. June 2019) (CBCS PATTERN JUNE-2016) Time: 05:00 p.m. to 06:00 p.m
Saturday 16/07/2022	51	Design of Concrete Structures – I (7043411)
Sunday 17/07/2022	52	Quantity Surveying and Valuation (7043412)
Monday 18/07/2022	53	Earthquake Engg. (7043413)
Tuesday 19/07/2022	54	Engineering Management- II (7043414)
Wednesday 20/07/2022	55 56 57 58 59 60 61 62 63	Elective-I Open Channel & River Hydraulics (7043415) Air Pollution & Control (7043416) Design of Foundations (7043417) Advanced Design of Concrete Structures (7043418) Managerial Techniques (7043419) Computer Applications in Civil Engg (704341-1) Advanced structures (704341-2) Entrepreneurship (704341-3) Remote Sensing and GIS Applications (704341-4)

Day & Date	Sr. No.	B.E. Part – II (New w.e.f. Nov. 2019) (CBCS PATTERN JUNE-2016) Time: 03.00 pm to 04.00 pm
Saturday 16/07/2022	64	Design of Concrete Structures – II (7043421)
Sunday 17/07/2022	65	Construction Practices and Town Planning (7043422)
Monday 18/07/2022	66	Transportation Engineering-II (7043423)
Tuesday 19/07/2022	67 68 69 70 71 72 73 74 75	Elective-II Advanced Engg. Geology (7043424) Ground improvement Techniques (7043425) Traffic Engg. & Control (7043426) Infrastructural Engineering (7043427) Project Appraisal (7043428) Solid and Hazardous & Waste Management (7043429) Dynamics of Structures (704342-1) Environmental Management (704342-2) Design of Bridges (704342-3)

Branch 2: Mechanical Engineering– (Mech)

Day & Date	Sr. No.	<u>S.E. Part – I (w.e.f. June 2017)</u> (CBCS Old PATTERN JUNE-2016) Time: 01:00 p.m. to 02:00 p.m
Thursday 21/07/2022	76	Analysis of Mechanical Elements (70410211)
Friday 22/07/2022	77	Applied Thermodynamics (70410212)
Saturday 23/07/2022	78	Engineering Mathematics – III (70410213)
Sunday 24/07/2022	79	Manufacturing Processes (70410214)
Monday 25/07/2022	80	Machine Drawing (70410215)

Day & Date	Sr. No.	<u>S.E. Part – II (w.e.f. of Nov 2017)</u> (CBCS PATTERN JUNE-2016) Time: 03:00 p.m. to 04:00 p.m
Wednesday 27/07/2022	81	Theory of Machines – I (70410221)
Thursday 28/07/2022	82	Machine Tools & Processes (70410222)
Friday 29/07/2022	83	Fluid Mechanics(70410223)
Saturday 30/07/2022	84	Electrical and Electronic Technology(70410224)
Sunday 31/07/2022	85 86	<u>Professional Elective - II</u> 1] Computational Techniques & Numerical Methods (70410227) 2]Simulation Techniques(70410228)

Day & Date	Sr. No.	<u>T.E. Part – I (Neww.e.f June 2018)</u> (CBCS PATTERN JUNE-2016) Time: 09:00 a.m. to 10:00 a.m
Thursday 14/07/2022	87	Theory of Machine – II (70410311)
Friday 15/07/2022	88	Metrology and Mechanical Measurement (70410312)
Saturday 16/07/2022	89	Metallurgy (70410313)
Sunday 17/07/2022	90	Machine Design - I (70410314)
Monday 18/07/2022	91 92 93	<u>Professional Elective - III</u> 1] Machine Tool Design (70410317) 2] Material Handling Systems (70410318) 3] Fluid Machinery and Fluid Power (70410319)
Tuesday 19/07/2022	94 95 96 97 98	<u>Self Learning (HSS)</u> Introduction of Sociology (7043104) a) Professional Ethics & Human Values (7043105) b) Economics (7043101) c) Stress & Coping (7043103) d) Intellectual Property Rights for Tech. Devept and Mgnt (7043102)

Day & Date	Sr. No.	T.E. Part – II (w.e.f Nov 2018) (CBCS PATTERN JUNE-2016) Time: 11.00 am to 12.00 pm
Thursday 14/07/2022	99	Heat and Mass Transfer (70410321)
Friday 15/07/2022	100	Internal Combustion Engine (70410322)
Saturday 16/07/2022	101	CAD-CAM & CAE (70410323)
Sunday 17/07/2022	102	Machine Design –II (70410324)
Monday 18/07/2022	103 104 105	Professional Elective – II 1] Experimental Stress Analysis (70410327) 2] Mechanical Vibration (70410328) 3] Tool Engineering (20410329)
Tuesday 19/07/2022	106 107 108 109	Self Learning (Technical) a) Renewable Energy Sources (70410330) b) Industrial Product Design (70410331) c) Composite Materials (70410332) d) Non-Conventional Machining Processes (70410333)

* Day & Date	Sr. No.	B.E. Part – I (New w.e.f. June 2019) (CBCS PATTERN JUNE-2016) Time: 05:00 p.m. to 06:00 p.m
Saturday 16/07/2022	110	Automatic Control Engineering (70410411)
Sunday 17/07/2022	111	Refrigeration and Air Conditioning (70410412)
Monday 18/07/2022	112	OPERATIONS RESEARCH (70410413)
Tuesday 19/07/2022	113 114 115 116	Professional Elective-V 1) Finite Element Method (FEM) (70410416) 2) Production and Operational Management (70410417) 3) Automobile Engineering (70410418) 4) COSTING & COST CONTROL (70410419)
Wednesday 20/07/2022	117 118 119 120 121	Free Elective -I 1) Industrial Robotics (IR) (7041041-1) 2) Sugar Technology (7041041-2) 3) Entrepreneurship Development (7041041-3) 4) Process Equipments Design (7041041-4) 5) Railway Transportation Systems (7041041-5)

Day & Date	Sr. No.	B.E. Part – II (Neww.e.f. Nov. 2019) (CBCS PATTERN JUNE-2016) Time: 03.00 pm to 04.00 pm
Saturday 16/07/2022	122	Industrial and Quality Management (70410422)
Sunday 17/07/2022	123	Industrial Engg. (70410421)
Monday 18/07/2022	124 125 126 127 128	Professional Elective – VI a) Non -conventional Machining (70410424) b) Mechatronics (70410425) c) Computational Fluid Dynamics (70410426) d) Process Engineering (70410428) e) Power Plant and Energy Engineering (70410429)
Tuesday 19/07/2022	129 130 131 132 133 134 135	Free Elective-II 1) Software Engineering & Cyber Security (7041042-1) 2) Agro Machine Engineering (7041042-2) 3) Plastic Engineering (7041042-3) 4) Economics for Engineers (7041042-4) 5) Project Management (7041042-5) 6) Marketing Management (7041042-6) 7) Railway Transportation Management (7041042-7)
Wednesday 20/07/2022	136	Power Plant & Energy Engg. **

Branch 3: Electronics Engineering– (Elen)

Day &Date	Sr. No.	<u>S.E. Part – I (w.e.f. June 2017)</u> (CBCS Old PATTERN JUNE-2016) Time: 01:00 p.m. to 02:00 p.m
Thursday 21/07/2022	137	Engineering Mathematics – III (7048211)
Friday 22/07/2022	138	Electronics Circuit Analysis and Design – I (7048212)
Saturday 23/07/2022	139	Network Theory & Analysis (7048213)
Sunday 24/07/2022	140	Digital Logic design (7048214)
Monday 25/07/2022	141	Analog Communication (7048215)

Day & Date	Sr. No.	<u>S.E. Part – II(w.e.f. of Nov 2017)</u> (CBCS PATTERN JUNE-2016) Time: 03:00 p.m. to 04:00 p.m
Wednesday 27/07/2022	142	Electronics Circuit Analysis and Design - II (7048222)
Thursday 28/07/2022	143	Data Structures(7048223)
Friday 29/07/2022	144	Electrical Machines (7048221)
Saturday 30/07/2022	145	Linear Integrated circuits (7048224)
Sunday 31/07/2022	146	Signals and systems (7048225)

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Day & Date	Sr. No.	T.E. Part – I (w.e.f June 2018) (CBCS PATTERN JUNE-2016) Time: 09:00 a.m. to 10:00 a.m
Thursday 14/07/2022	147	Control Systems (7048311)
Friday 15/07/2022	148	Digital Signal Processing (7048312)
Saturday 16/07/2022	149	Microcontrollers (7048313)
Sunday 17/07/2022	150	Electromagnetic Engineering (7048315)
Monday 18/07/2022	151	Information Technology & Management (7048316)
Tuesday 19/07/2022	152 153 154 155 156	a) Introduction of Sociology (7043104) b) Professional Ethics & Human Values(7043105) c) Economics (7043101) d) Stress & Coping (7043103) e) Intellectual Property Rights for Tech. Devept and Mgnt (7043102)

Day & Date	Sr. No.	T.E. Part – II (w.e.f Nov 2018) (CBCS PATTERN JUNE-2016) Time: 11.00 am to 12.00 pm
Thursday 14/07/2022	157	Operating Systems (7048321)
Friday 15/07/2022	158	Digital Communication (7048322)
Saturday 16/07/2022	159	Embedded Systems (7048323)
Sunday 17/07/2022	160	Industrial Electronics (7048324)
Monday 18/07/2022	161	VLSI Design (7048325)
Tuesday 19/07/2022	162 163 164 165	Self Learning a) Automotive Electronics (7048329) b) Robotics (7048327) C) Electronics Instrumentation (7048330) d) Programming in VB Net (7048328)

Day & Date	Sr. No.	B.E. Part – I (Neww.e.f. June 2019) (CBCS PATTERN JUNE-2016) Time: 05:00 p.m. to 06:00 p.m
Saturday 16/07/2022	166	Power Electronics (7048411)
Sunday 17/07/2022	167	Computer Networks (7048412)
Monday 18/07/2022	168	Mobile Technology (7048413)
Tuesday 19/07/2022	169	Internet of Things (7048414)
Wednesday 20/07/2022	170 171 172 173	Elective-I 1) Biomedical Instrumentation (7048417) 2) Mechatronics (7048418) 3) Image Processing (7048419) 4) Database Management Systems (704841-1)

Day & Date	Sr. No.	B.E. Part – II (Neww.e.f. Nov. 2019) (CBCS PATTERN JUNE-2016) Time: 03.00 pm to 04.00 pm
Saturday 16/07/2022	174	Advanced Communication Engineering (7048421)
Sunday 17/07/2022	175	Audio Video System (7048422)
Monday 18/07/2022	176	Electronics System Design (7048423)
Tuesday 19/07/2022	177 178 179 180	Elective-II 1) Broadband Communication (7048425) 2) Speech Processing (7048427) 3) PLC and Industrial Controllers (7048426) 4) Data Analytic (7048428)

Branch 4: Electronics & Telecommunication Engineering– (E & TC)

Day & Date	Sr. No.	<u>S.E. Part – I (New w.e.f. June 2017)</u> (CBCS Old PATTERN JUNE-2016) Time: 01:00 p.m. to 02:00 p.m
Thursday 21/07/2022	181	Engineering Mathematics – III (7047211)
Friday 22/07/2022	182	Electronics Circuit Analysis and Design – I (7047212)
Saturday 23/07/2022	183	Network Theory & Analysis (7047213)
Sunday 24/07/2022	184	Digital Techniques (7047214)
Monday 25/07/2022	185	Analog Communication (7047215)

Day & Date	Sr. No.	<u>S.E. Part – II (New w.e.f. Nov 2017)</u> (CBCS PATTERN JUNE-2016) Time: 03:00 p.m. to 04:00 p.m
Wednesday 27/07/2022	186	Electronics circuit analysis and Design - II (7047221)
Thursday 28/07/2022	187	Data Structure(7047222)
Friday 29/07/2022	188	Control Systems(7047223)
Saturday 30/07/2022	189	Linear Integrated Circuit (7047224)
Sunday 31/07/2022	190	Signals and Systems (7047225)

Day & Date	Sr. No.	T.E. Part – I (w.e.f. June 2018) (CBCS PATTERN JUNE-2016) Time: 09:00 a.m. to 10:00 a.m
Thursday 14/07/2022	191	Electro Magnetic Engg. & Radiating System (7047311)
Friday 15/07/2022	192	Principles of Digital Communication (7047312)
Saturday 16/07/2022	193	Software Engineering & Project Management System (7047315)
Sunday 17/07/2022	194	Digital Signal Processing (7047313)
Monday 18/07/2022	195	Microcontroller – I (7047314)
Tuesday 19/07/2022	196 197 198 199 200	Self Learning (HSS) a) Introduction of Sociology (7043104) b) Professional Ethics & Human Values(7043105) c) Economics (7043101) d) Stress & Coping (7043103) e) Intellectual Property Rights for Tech. Devept and Mgnt(7043102)

Day & Date	Sr. No.	T.E. Part – II(w.e.f. Nov. 2018) (CBCS PATTERN JUNE-2016) Time: 11.00 am to 12.00 pm
Thursday 14/07/2022	201	Radar & Microwave Engineering (7047321)
Friday 15/07/2022	202	Microcontroller-II (PIC) (7047322)
Saturday 16/07/2022	203	Electronics Applications & System Design (7047323)
Sunday 17/07/2022	204	Optical Communication (7047324)
Monday 18/07/2022	205	Mobile Communication (7047325)
Tuesday 19/07/2022	206 207 208	Self Learning a) Computer Organization (7047329) b) Operating System (7047328) c) Robotics (7047327)

Day & Date	Sr. No.	B.E. Part – I (Neww.e.f. June 2019) (CBCS PATTERN JUNE-2016) Time: 05:00 p.m. to 06:00 p.m
Saturday 16/07/2022	209	Computer Communication Network (7047411)
Sunday 17/07/2022	210	Embedded System Design (7047412)
Monday 18/07/2022	211	Satellite Communication (7047413)
Tuesday 19/07/2022	212	Database Management System (DBMS) (7047414)
Wednesday 20/07/2022	213 214 215 216	Elective-I 1) Image & Video Processing (7047417) 2) Optimization Techniques (7047418) 3) Electronic Product Design (7047419) 4) Advance DSP (704741-1)

Day & Date	Sr. No.	B.E. Part – II (Neww.e.f. Nov. 2019) (CBCS PATTERN JUNE-2016) Time: 03.00 pm to 04.00 am
Saturday 16/07/2022	217	Internet of Things (IoT) (7047421)
Sunday 17/07/2022	218	Multimedia Communication Techniques (7047422)
Monday 18/07/2022	219	VLSI Design (7047423)
Tuesday 19/07/2022		Elective-II
	220	1) Network Security (7047425)
	221	2) Soft Computing (7047426)
	222	3) DSP Processors & Application (7047427)
	223	4) Data Analytics (7047428)

* [The students of BE Part-II (old pattern 100 marks) have to appear for respective paper of 70 marks of CGP pattern]

Branch 5: Computer Science & Engineering– (CSE)

Day &Date	Sr. No.	S.E. Part – I (w.e.f. June 2017) (CBCS Old PATTERN JUNE-2016) Time: 01:00 p.m. to 02:00 p.m
Thursday 21/07/2022	224	Applied Mathematics – I (7044211)
Friday 22/07/2022	225	Discrete Mathematical Structures (7044212)
Saturday 23/07/2022	226	Data Communication (7044213)
Sunday 24/07/2022	227	Digital Techniques (7044214)
Monday 25/07/2022	228	Computer Graphics (7044215)

Day &Date	Sr. No.	S.E. Part – II (w.e.f. Nov 2017) (CBCS PATTERN JUNE-2016) Time: 03:00 p.m. to 04:00 p.m
Wednesday 27/07/2022	229	Applied Mathematics - II (7044221)
Thursday 28/07/2022	230	Theory of Computation(7044222)
Friday 29/07/2022	231	Microprocessors (7044223)
Saturday 30/07/2022	232	Data Structures (7044224)
Sunday 31/07/2022	233	Computer Networks(7044225)

Day & Date	Sr. No.	T.E. Part – I (w.e.f. June 2018) (CBCS PATTERN JUNE-2016) Time: 09:00 a.m. to 10:00 a.m
Thursday 14/07/2022	234	Operating System Concepts (7044311)
Friday 15/07/2022	235	System Programming (7044312)
Saturday 16/07/2022	236	Database Engineering (7044313)
Sunday 17/07/2022	237	Design & Analysis of Algorithm (7044316)
Monday 18/07/2022	238	Computer Organization (7044315)
Tuesday 19/07/2022	239 240 241 242 243	<u>Self Learning (HSS)</u> a) Introduction of Sociology (7043104) b) Professional Ethics & Human Values(7043105) c) Economics (7043101) d) Stress & Coping (7043103) e) Intellectual Property Rights for Tech. Devept and Mgmt(7043102)

Day & Date	Sr. No.	T.E. Part – II (w.e.f. June 2018) (CBCS PATTERN JUNE-2016) Time: 11.00 am to 12.00 pm
Thursday 14/07/2022	244	Compiler Construction (7044321)
Friday 15/07/2022	245	Unix Operating System (7044322)
Saturday 16/07/2022	246	Mobile Computing (7044325)
Sunday 17/07/2022	247	Software Engineering (7044326)
Monday 18/07/2022	248	Mobile Application Development (7044323)
Tuesday 19/07/2022	249 250 251 252 253 254	Self Learning (HSS/Technical) a) Computer Modeling and Simulation (7043201) b) Software licenses and practices (7043202) c) Network set up & management tools (7043203) d) Ethical Hacking (7043204) e) Data Science (7043205) f) UI Technologies (7043206)

Day & Date	Sr. No.	B.E. Part – I (Neww.e.f. June 2019) (CBCS PATTERN JUNE-2016) Time: 05:00 p.m. to 06:00 p.m
Saturday 16/07/2022	255	Advanced Computer Architecture (7044411)
Sunday 17/07/2022	256	Distributed Systems (7044412)
Monday 18/07/2022	257	Modern Database Systems (7044413)
Tuesday 19/07/2022	258 259 260	Elective-I 1) Internet of Things (7044417) 2) Wireless Adhoc Networks (7044418) 3) Artificial Intelligence (7044419)
Wednesday 20/07/2022	261 262 263	Elective-II 1) Business Intelligence (704441-1) 2) Data Mining (704441-2) 3) Object Oriented Modeling and Design (704441-3)

Day & Date	Sr. No.	B.E. Part – II (Neww.e.f. Nov. 2019) (CBCS PATTERN JUNE-2016) Time: 03.00 pm to 04.00 pm
Saturday 16/07/2022	264	Management Information System (7044421)
Sunday 17/07/2022	265	Information & Cyber Security (7044422)
Monday 18/07/2022	266 267 268	Elective-III 1) Big data Analytics (7044425) 2) Human Computer Interaction (7044426) 3) Artificial Neural Network (7044427)
Tuesday 19/07/2022	269 270 271	Elective-IV 1) Software Testing and Quality Assurance (7044428) 2) Cloud Computing (7044429) 3) Machine Learning (704442-1)

Branch 6: Information Technology–(IT)

Day &Date	Sr. No.	S.E. Part – I (New w.e.f. June 2017) (CBCS Old PATTERN JUNE-2016) Time: 01:00 p.m. to 02:00 p.m
Thursday 21/07/2022	272	Applied Mathematics – I(7049211)
Friday 22/07/2022	273	Discrete Mathematical Structure(7049212)
Saturday 23/07/2022	274	Data Communication (7049213)
Sunday 24/07/2022	275	Digital Logic Design (7049214)
Monday 25/07/2022	276	Computer Graphics(7049215)

Day &Date	Sr. No.	S.E. Part – II (w.e.f. of Nov 2017) (CBCS PATTERN JUNE-2016) Time: 03:00 p.m. to 04:00 p.m
Wednesday 27/07/2022	277	Applied Mathematics - II (7049221)
Thursday 28/07/2022	278	Theory of Computation (7049222)
Friday 29/07/2022	279	Microprocessor(7049223)
Saturday 30/07/2022	280	Data Structures (7049224)
Sunday 31/07/2022	281	Computer Networks(7049225)

Day & Date	Sr. No.	T.E. Part – I (w.e.f. June 2018) (CBCS PATTERN JUNE-2016) Time: 09:00 a.m. to 10:00 a.m
Thursday 14/07/2022	282	Principles of Operating Systems (7049311)
Friday 15/07/2022	283	System Software (7049312)
Saturday 16/07/2022	284	Design & Analysis of Algorithms (7049315)
Sunday 17/07/2022	285	Database Engineering (7049313)
Monday 18/07/2022	286	Computer Organization & Architecture (7049316)
Tuesday 19/07/2022	287 288 289 290 291	Self Learning (HSS) Introduction of Sociology(7043104) a) Professional Ethics & Human Values(7043105) b) Economics (7043101) c) Stress & Coping(7043103) d) Intellectual Property Rights for Tech. Devept and Mgnt (7043102)

Day & Date	Sr. No.	T.E. Part – II (w.e.f. Nov 2018) (CBCS PATTERN JUNE-2016) Time: 11.00 am to 12.00 pm
Thursday 14/07/2022	292	Unix Operating System (7049321)
Friday 15/07/2022	293	Software Engineering (7049325)
Saturday 16/07/2022	294	Object Oriented Modeling and Design (7049326)
Sunday 17/07/2022	295	Artificial Intelligence (7049322)
Monday 18/07/2022	296	Mobile Application Development (7049323)
Tuesday 19/07/2022	297 298 299 300 301 302	Self Learning (HSS/Technical) a) Network Setup and Management (7049328) b) Tools for computer Architecture (7049329) c) Compiler Development Tools (7049330) d) Data Science (7049331) e) User Interface Technologies (7049332) f) AGILE PROJECT MANAGEMENT (7049333)

* [The students of TE Part-II (old pattern 100 marks) have to appear for respective paper of 70 marks of CGPApattern]

Day & Date	Sr. No.	B.E. Part – I (Neww.e.f. June 2019) (CBCS PATTERN JUNE-2016) Time: 05:00 p.m. to 06:00 p.m
Saturday 16/07/2022	303	Management Information System (7049411)
Sunday 17/07/2022	304	Advanced Database System (7049412)
Monday 18/07/2022	305	Software Testing and Quality Assurance (7049413)
Tuesday 19/07/2022	306	Mobile Computing (7049414)
Wednesday 20/07/2022	307 308 309 310	Elective-I 1) Data Mining (7049418) 2) Distributed Computing (704941-1) 3) Image Processing (7049419) 4) Microcontroller & Embedded Systems (704941-2)

Day & Date	Sr. No.	B.E. Part – II (Neww.e.f. Nov. 2019) (CBCS PATTERN JUNE-2016) Time: 03.00 pm to 04.00 pm
Saturday 16/07/2022	311	Information Retrieval (7049421)
Sunday 17/07/2022	312	Machine Learning (7049422)
Monday 18/07/2022	313	Information Assurance and Security (7049423)
Tuesday 19/07/2022	314 315 316 317	Elective - II 1) Internet of Things (7049429) 2) Pattern Recognition (7049427) 3) Business Intelligence (7049426) 4) Cloud Computing (7049428)

- [The students of BE Part-II (old pattern 100 marks) have to appear for respective paper of 70 marks of CGPA pattern]

Branch 7: Electrical Engineering– (Elec)

Day &Date	Sr. No.	S.E. Part – I (w.e.f. June2017) (CBCS Old PATTERN JUNE-2016) Time: 01:00 p.m. to 02:00 p.m
Thursday 21/07/2022	318	Engineering Mathematics-III(7046211)
Friday 22/07/2022	319	Electrical Machines - I (7046212)
Saturday 23/07/2022	320	Electrical Measurement and Instrumentation(7046213)
Sunday 24/07/2022	321	Power Plant Engineering(7046214)
Monday 25/07/2022	322	Electronic Devices and Circuits(7046215)

Day &Date	Sr. No.	S.E. Part – II (w.e.f. of Nov 2017) (CBCS PATTERN JUNE-2016) Time: 03:00 p.m. to 04:00 p.m
Wednesday 27/07/2022	323	Numerical Methods and Linear Algebra (7046221)
Thursday 28/07/2022	324	Electrical Machines - II (7046222)
Friday 29/07/2022	325	Elements of Power System (7046223)
Saturday 30/07/2022	326	Analog & Digital Integrated Circuits (7046224)
Sunday 31/07/2022	327	Network Analysis (7046225)

Day & Date	Sr. No.	T.E. Part – I (w.e.f. June 2018) (CBCS PATTERN JUNE-2016) Time: 09:00 a.m. to 10:00 a.m
Thursday 14/07/2022	328	Power System Analysis (7046311)
Friday 15/07/2022	329	Control Systems – I (7046312)
Saturday 16/07/2022	330	Microprocessor and Microcontroller (7046313)
Sunday 17/07/2022	331	Engineering Economics and Management (7046314)
Monday 18/07/2022	332	Electromagnetic Engineering (7046315)
Tuesday 19/07/2022	333 334 335 336 337	Self Learning (HSS) a) Introduction of Sociology (7043104) b) Professional Ethics & Human Values (7043105) c) Economics (7043101) d) Stress & Coping (7043103) e) Intellectual Property Rights for Tech. Devept and Mgmt (7043102)

Day & Date	Sr. No.	T.E. Part – II (w.e.f. Nov 2018) (CBCS PATTERN JUNE-2016) Time: 11.00 am to 12.00 pm
Thursday 14/07/2022	338	Electrical Utilization (7046324)
Friday 15/07/2022	339	Power Electronics (7046321)
Saturday 16/07/2022	340	Control System-II (7046322)
Sunday 17/07/2022	341	Signals and Systems (7046325)
Monday 18/07/2022	342	Electrical Machine Design (7046323)
Tuesday 19/07/2022	343 344 345 346	Self Learning a) Special Purpose Machines (7046327) b) Electrical Safety (7046328) c) Solar Photovoltaic System Design & Installation (7046329) d) Instrumentation Process Control & Robotics (70463210)

Day & Date	Sr. No.	B.E. Part – I (Neww.e.f. June 2019) (CBCS PATTERN JUNE-2016) Time: 05:00 p.m. to 06:00 p.m
Saturday 16/07/2022	347	Industrial Drives Control (704641-1)
Sunday 17/07/2022	348	Switchgear & Protection (704641-2)
Monday 18/07/2022	349	Energy Audit and Management (704641-3)
Tuesday 19/07/2022	350	Extra High Voltage AC Transmission System (704641-4)
Wednesday 20/07/2022	351 352 353 354	1) PLC and SCADA (704641-7) 2) Digital Signal Processing (704641-8) 3) Renewable Energy Sources (704641-9) 4) Smart <u>Grid Technology</u> (704641-10)

Day & Date	Sr. No.	B.E. Part – II (Neww.e.f. Nov. 2019) (CBCS PATTERN JUNE-2016) Time: 03.00 pm to 04.00 pm
Saturday 16/07/2022	355	Flexible AC Transmission System and HVDC (704642-1)
Sunday 17/07/2022	356	Power System and Operation Control (704642-2)
Monday 18/07/2022	357	Electrical Installation and Estimation (704642-3)
Tuesday 19/07/2022		Elective - II
	358	1) Power System Dynamics (704642-7)
	359	2) High Voltage Engineering (704642-8)
	360	3) Power System Planning (704642-5)
	361	4) Power Quality (704642-6)

Branch 8: Bio-Medical Engineering–(Bio-Med)

Day & Date	Sr. No.	<u>S.E. Part – I (w.e.f. June 2017)</u> (CBCS Old PATTERN JUNE-2016) Time: 01:00 p.m. to 02:00 p.m
Thursday 21/07/2022	362	Engineering Mathematics – III (7041211)
Friday 22/07/2022	363	Human Anatomy and Physiology (7041212)
Saturday 23/07/2022	364	Biomaterials (7041213)
Sunday 24/07/2022	365	Electronics Circuit Analysis and Design - I (7041214)
Monday 25/07/2022	366	Linear Circuit Analysis (7041215)

Day & Date	Sr. No.	<u>S.E. Part – II (w.e.f. of Nov 2017)</u> (CBCS PATTERN JUNE-2016) Time: 03:00 p.m. to 04:00 p.m
Wednesday 27/07/2022	367	Transducers in Biomedical Instrumentation (7041221)
Thursday 28/07/2022	368	Biomedical Prosthetics and Orthotics (7041222)
Friday 29/07/2022	369	Electronics Instrumentations(7041223)
Saturday 30/07/2022	370	Digital Design (7041224)
Sunday 31/07/2022	371	Electronics Circuit Analysis and Design- II (7041225)

Day & Date	Sr. No.	T.E. Part – I (w.e.f. June 2018) (CBCS PATTERN JUNE-2016) Time: 09:00 a.m. to 10:00 a.m
Thursday 14/07/2022	372	Medical Instrumentation - I (7041311)
Friday 15/07/2022	373	Clinical Modeling & Simulation(7041312)
Saturday 16/07/2022	374	Microprocessor & Microcontroller(7041313)
Sunday 17/07/2022	375	Principles of Communications(7041314)
Monday 18/07/2022	376	Signals & Systems(7041315)
Tuesday 19/07/2022	377 378 399 400 401	Self Learning (HSS) a) Introduction of Sociology(7043104) b) Professional Ethics & Human Values(7043105) c) Economics (7043101) d) Stress & Coping(7043103) e) Intellectual Property Rights for Tech. Devept and Mgnt(7043102)

Day & Date	Sr. No.	T.E. Part – II (Neww.e.f. Nov 2018) (CBCS PATTERN JUNE-2016) Time: 11.00 am to 12.00 pm
Thursday 14/07/2022	402	Medical Instrumentation II (7041321)
Friday 15/07/2022	403	Medical Signal Processing (7041322)
Saturday 16/07/2022	404	Medical Imaging I (7041323)
Sunday 17/07/2022	405	Feedback Control System (7041325)
Monday 18/07/2022	406	Embedded Systems (7041324)
Tuesday 19/07/2022	407 408 409	Self Learning a) HOSPITAL MANAGEMENT (7041327) b) ROBOTICS AND AUTOMATION IN MEDICINE (7041328) c) NUCLEAR MEDICINE (7041329)

Day & Date	Sr. No.	B.E. Part – I (Neww.e.f. June 2019) (CBCS PATTERN JUNE-2016) Time: 05:00 p.m. to 06:00 p.m
Saturday 16/07/2022	410	Rehabilitation Engineering (7041411)
Sunday 17/07/2022	411	Medical Informatics (7041412)
Monday 18/07/2022	412	Medical Instrumentation III (7041413)
Tuesday 19/07/2022	413	Principles of Image processing (7041414)
Wednesday 20/07/2022		Elective - I
	414	1) MEDICAL RADIATION SAFETYENGINEERING (7041416)
	415	2) LASERS AND OPTICAL FIBERS INMEDICINE (7041417)
	416	3) NEURAL NET WORK AND AII NBIOMEDICAL ENGINEERING (7041418)

Day & Date	Sr. No.	B.E. Part – II (Neww.e.f. Nov. 2019) (CBCS PATTERN JUNE-2016) Time: 03.00 pm to 04.00 am
Saturday 16/07/2022	417	Medical Imaging - II (7041421)
Sunday 17/07/2022	418	Biomedical Microsystems (7041422)
Monday 18/07/2022	419	Tissue Engineering (7041423)
Tuesday 19/07/2022		Elective II
	420	1) BIOMECHANICS PROSTHESIS AND ORTHOSIS (7041427)
	421	2) DESIGN FOR MEDICAL SYSTEMS (7041426)
	422	3) BIOMETRIC SYSTEMS (7041425)

[The students of BE Part-II (old pattern 100 marks) have to appear for respective paper of 70 marks of CGPAnpattern]

Branch 9: Electrical & Electronics Engineering– (E & E)

Day &Date	Sr. No.	<u>S.E. Part – I (w.e.f. June 2017)</u> (CBCS Old PATTERN JUNE-2016) Time: 01:00 p.m. to 02:00 p.m
Thursday 21/07/2022	423	Engineering Mathematics - III
Friday 22/07/2022	424	D.C. Machines and Transformers
Saturday 23/07/2022	425	Electrical Networks
Sunday 24/07/2022	426	Analog Electronics
Monday 25/07/2022	427	Electrical Power Generation

Day &Date	Sr. No.	<u>S.E. Part – II (w.e.f. of Nov 2017)</u> (CBCS PATTERN JUNE-2016) Time: 03:00 p.m. to 04:00 p.m
Wednesday 27/07/2022	428	Linear Algebra
Thursday 28/07/2022	429	A.C. Machines
Friday 29/07/2022	430	Electrical &Electronic Measurements
Saturday 30/07/2022	431	Signals & Systems
Sunday 31/07/2022	432	Digital Techniques

Day & Date	Sr. No.	B.E. Part – I (w.e.f. June 2015) *(CGPA Pattern 2014) Time: 05:00 p.m. to 06:00 p.m
Saturday 16/07/2022	433	Industrial Drives and Control (70454101)
Sunday 17/07/2022	434	Electrical energy Utilization and Traction (70454102)
Monday 18/07/2022	435	Electrical Installation, testing & maintenance (70454103)
Tuesday 19/07/2022	436	Switchgear & Protection (70454104)
Wednesday 20/07/2022		Elective-I
	437	1) High Voltage Engineering(70454107)
	438	2) Renewable Energy Sources(70454108)
	439	3) Digital Signal Processing(70454109)
	440	4) PLC & Applications(70454110)
	441	5) VLSI Design(70454111)
	442	6) Power System Dynamics & Stability(70454112)

Day & Date	Sr. No.	B.E. Part – II (w.e.f. Nov 2015) *(CGPA Pattern 2014) Time: 03.00 pm to 04.00 am
Saturday 16/07/2022	443	HVDC & FACTS(70454201)
Sunday 17/07/2022	444	Electrical Machine Design(70454202)
Monday 18/07/2022	445	Engineering Economics & Industrial Management (70454203)
Tuesday 19/07/2022		Elective-IIs
	446	1) EHVAC(70454205)
	447	2) Energy conservation & Auditing (70454206)
	448	3) Data communication & Networking (70454207)
	449	4) Power Quality (70454208)
	450	5) Embedded System (70454209)
	451	6) Modeling of electrical System (70454210)

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Date : 29/06/2022

Sd/-
Director

Board of Examinations and Evaluation