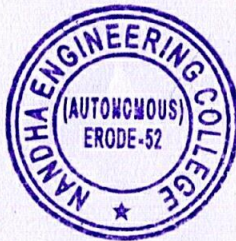




**NANDHA ENGINEERING COLLEGE (AUTONOMOUS),  
ERODE-52  
PO/PSO Attainment**

S.No	Department	Batch	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
1	Agricultural Engineering	2019-2023	82.86	74.92	74.14	70.32	71.09	71.42	69.79	63.60	70.20	79.14	71.24	70.26	69.65	67.05	NA	NA
2	Biomedical Engineering	2019-2023	83.17	75.28	69.51	73.40	65.61	73.04	62.62	72.51	75.21	74.65	66.05	69.32	69.87	64.17	59.00	69.96
3	Chemical Engineering	2019-2023	77.48	75.13	72.21	70.78	68.16	65.82	70.89	65.90	67.93	75.48	69.27	71.15	69.00	68.46	70.38	69.51
4	Civil Engineering	2019-2023	74.39	71.54	68.64	69.35	73.27	72.42	69.42	73.78	70.74	65.80	67.93	72.39	73.66	71.94	75.67	69.08
5	Computer Science Engineering	2019-2023	87.40	78.85	83.10	76.65	77.34	61.39	67.31	65.59	71.67	72.81	80.79	80.25	80.59	84.76	80.78	80.65
6	Electronics and Communication Engineering	2019-2023	80.75	74.89	68.57	69.46	74.91	75.47	77.45	78.74	76.65	77.60	69.66	72.16	79.09	70.07	68.55	72.84
7	Electrical and Electronics Engineering	2019-2023	70.42	68.65	67.57	67.58	54.22	53.55	37.80	67.47	50.94	41.79	67.00	67.42	68.59	67.19	46.79	68.05
8	Information Technology	2019-2023	83.32	81.40	78.10	90.22	78.47	77.02	79.42	78.08	75.81	77.27	79.30	82.82	81.16	81.02	78.87	82.38
9	Mechanical Engineering	2019-2023	75.65	70.92	70.82	62.91	70.35	59.21	64.53	50.00	62.65	62.00	70.40	70.21	70.51	70.06	56.40	55.99



*N. D. ...*  
18.1.24.  
**PRINCIPAL**  
Nandha Engineering College  
(Autonomous)  
Erode - 638 052.

NANDHA ENGINEERING COLLEGE, ERODE

DEPARTMENT OF AGRICULTURE ENGINEERING

PO ATTAINMENT FOR BATCH 2019-2023

Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
17EYA01	Professional English – I						0.9			1.3	1.3		1.3		0.4
17MYB01	Calculus and Solid Geometry	2.8	1.9		0.6	1.3	0.9						0.9	1.8	0.3
17PYB01	Physics for Engineers	2.21	2.99		2.54	2.36			2.88					0.96	1.93
17CYB01	Applied Chemistry	2.47	2.49	2.81	2.86	2.55	1.93	2.88	1.93				2.46	2.09	2.35
17EEC01	Basic Electrical and Electronics Engineering	1.69	1.5	1.86	1.93	1.53	2.16						2.03	1.42	1.05
17CSC01	Problem Solving and Python Programming	2.61	2.49	2.24							2.78	2.57		0.92	0.91
17CSP01	Problem Solving and Python Programming Laboratory	2.75	2.94	2.62		2.93				2.94	2.97	2.62		0.98	0.98
17GYP01	Physics and Chemistry Laboratory	2.61	2.41		2.80			2.41					3.00	2.16	1.41
17EYA02	Professional English – II						2.10			3.00	3.00		3.00		1.00
17MYB02	Complex Analysis and Laplace Transforms	0.87	0.87	1.76	1.71	1.79	1.75	0.88	1.76		0.97	1.65	1.68	1.78	0.82
17CYB03	Environmental Science	2.67	2.63	2.14	2.56	2.30	2.30	2.23	0.96	2.55		2.63	2.53	2.47	2.09
17AGC01	Principles and Practices of Crop Production		2.07	2.73		2.33		2.10		2.18		1.98	1.99	2.73	
17MEC01	Engineering Graphics	1.88		2.22	1.88	2.10				2.23		2.24	2.23	2.31	2.14
17MEC02	Engineering Mechanics	2.00	3.00	2.00	2.00	2.00	1.00			2.00		2.00	3.00		3.00
17GYP02	Engineering Practice Laboratory	2.68			2.44	2.95	2.61		1.96	2.94	2.44	2.60	2.59	1.71	1.95
17AGP01	Crop Production and Husbandry Laboratory	1.97	2.22	2.96	2.47	2.37		1.97				1.97	1.97	2.29	2.46

17MYB03	Fourier series and Partial Differential Equation	2.46	2.65	2.08	2.52	2.83	2.83	2.83		2.85		1.90	2.21	2.85	2.46
17AGC02	Soil Science and Engineering	1.80	1.80	2.25	2.16			1.79	1.44				1.44	1.61	
17AGC03	Fluid Mechanics and Hydraulics	2.77	2.03	2.03	2.16	1.82	2.46							2.22	
17AGC04	Surveying and Levelling	2.83	2.83	2.58	2.64	2.54	2.87			2.64	1.65		2.36	1.88	1.88
17AGC05	Mechanics of Farm Machines	2.79	1.26	1.18	1.93	1.43	1.24	0.93	0.91	0.91			0.97	1.86	
17AGC06	Thermodynamics for Agricultural Engineers	2.80	2.80	2.19		1.88		2.06	1.88	0.95		0.95	2.06	2.53	2.75
17AGP02	Surveying and Levelling Laboratory	1.95	1.95	2.73	2.34	2.68								0.98	
17AGP03	Fluid Mechanics and Hydraulics Laboratory	2.15	1.46	1.37	0.98	1.46	1.22	0.97	0.98	0.98				1.46	
17MYB06	Statistics and Numerical Methods	2.85	2.28	1.91	2.28	2.09		2.85		2.83		2.36	2.47	2.47	
17AGC07	Heat and Mass Transfer for Agricultural Engineers	2.54	2.73	1.64	1.60	1.78				2.77			1.36	2.23	2.17
17AGC08	Crop Process Engineering	2.73	1.81	2.06	1.56	1.18				0.90		0.90	1.10	1.76	2.54
17AGC09	Farm Tractor Systems	2.39	2.39	1.97	1.97	2.23	0.79		0.79			1.57	0.79	1.59	
17AGC10	Hydrology and Water Resources Engineering	2.74	2.19	1.80	2.19	2.01		2.74		2.67		2.25	2.38	2.38	
17AGC11	Mechanics of Materials	2.92	2.92	1.46	1.56	0.96	0.97	0.97	0.96	0.96			1.95	1.96	2.54
17AGP04	Crop Process Engineering Laboratory	2.73	1.75	1.95		1.46	2.19			1.30				2.14	2.92
17AGP05	Farm Tractor and Engines Laboratory	2.97		0.99		1.19	0.99		1.98				1.99	1.98	
17AGC12	Unit Operations in Agricultural Processing	2.57	2.57	1.72	1.38	1.52	2.23		1.71			1.90	1.72	1.44	2.57
17AGC13	Farm Implement and Equipment	2.48	2.46	1.35	1.65	2.48						2.48	1.65	1.97	0.83
17AGC14	Irrigation and Drainage Engineering	2.59	1.39	2.58	1.38	2.25	2.58		1.73			1.55	1.72	2.07	1.50

17AGC15	Bio and Thermo- chemical Conversion of Biomass	2.58	2.40	2.40	2.40	0.85	2.47	2.58		1.28		1.71	2.40	2.35	2.23
17AGX12	Soil and Water conservation	2.56	1.72	1.92		1.99	2.52	2.56	1.70	2.55	1.70	2.55	2.28	2.22	0.84
17AGX08	Watershed Management	2.58	0.87	2.24	0.87	1.72		0.88	1.34	1.29		1.34	1.88		2.24
17AGP06	Unit Operations in Agricultural Processing Laboratory	2.92	1.56	1.75	1.97				1.97	1.97	1.97	1.97			2.92
17AGP07	Irrigation and Drainage Engineering Laboratory	1.58	1.97	1.98	0.99	2.30	1.65	0.98	1.98			1.98	1.23	2.57	0.99
17AGC16	Plant Protection And Harvesting Machinery	2.51	1.68	1.87	1.89	2.51	1.89	1.96	1.39				1.67	2.51	2.50
17AGC18	Design of Micro Irrigation Systems	2.19	2.01	2.51	1.83	1.47	1.28	1.28		0.92			1.28	2.74	
17AGX15	Extension methods and transfer of technology			1.2	1.7	2.5	1.2		2.1	1.9	2.6	1.7	2.0		0.86
17AGX06	Packaging And Storage Techniques For Agricultural Commodities	2.74		2.74		2.20	2.06	2.78		2.50		2.05	1.83	1.60	1.09
17AGX14	Building Materials and Farm Structures	2.76		2.39		2.02		1.38	1.38	1.86		1.62	1.29	1.83	1.84
17AGX05	Refrigeration and Air Conditioning for Agricultural Engineers	2.45	1.86	1.64	1.89	1.41	2.22	2.27	1.39	0.94		1.91	1.25	1.42	1.69
17AGP08	CAD for Agricultural Engineering	1.95		2.93	1.95	2.93	0.98						2.44	2.93	
17AGP09	Drawing of Farm Structures	2.93		2.93	2.54									2.93	2.44
17AGD01	Project I	2.92	2.91	2.89	2.42	1.95	2.92	2.92	2.14	2.92	2.93	2.14	2.14	2.42	1.94
17AGC17	Protected Cultivation	1.56	1.16	2.30	1.32	2.12	1.42	1.42		1.53		1.42	1.16	1.85	0.77
17AGC19	Food and Dairy Engineering	2.49	2.38	1.48	2.44	1.65	2.18						2.90	1.27	2.20
17AGC20	Testing and Management of Farm Machinery	2.16	2.16	2.16	2.20	2.05			1.23	1.60	2.02		1.47	1.58	1.72
17AGC21	Remote Sensing and GIS for Agricultural Engineers	2.70	2.33	1.89	2.33	2.76	2.42	2.42		2.70			2.70	1.60	1.45

17AGP10	Food and Dairy Engineering Laboratory	2.92	2.92	2.92		1.95	2.92			2.92	2.92			1.95	
17AGP11	Operation and Maintenance of Farm Machinery Laboratory	2.99	1.99	1.80	2.19		2.99	1.40	1.20	1.99	1.99		1.99	2.79	2.79
17AGX02	Climate Change and Adaptation	2.71	2.22	2.38	1.99	2.34	2.98	1.93	1.98	2.32		2.22	2.18	2.19	
17AGD02	Project II	2.92	2.91	2.89	2.42	1.95	2.92	2.92	2.14	2.92	2.93	2.14	2.14	2.42	1.94

PO Attainment	2.5	2.2	2.1	2.0	2.0	2.0	2.0	2.0	1.6	2.0	2.3	2.0	1.9	2.0	1.8
% of PO Attainment	83	72	71	66	67	66	66	66	54	68	76	65	65	67	60

SUM	127.10	101.81	108.40	89.38	98.93	72.94	57.29	43.74	72.99	34.14	60.89	91.13	102.22	77.48
DIRECT ATTAINMENT OUT OF 3	2.49	2.17	2.13	1.99	2.02	1.97	1.98	1.62	2.03	2.28	1.96	1.94	2.00	1.80
% of DIRECT ATTAINMENT	83.07	72.20	70.85	66.21	67.30	65.72	65.85	54.00	67.58	75.88	65.47	64.63	66.81	60.06
ALUMNI SURVEY	2.62	2.60	2.81	2.56	2.80	2.95	2.78	2.98	2.65	2.88	2.84	2.81	2.46	2.90
EMPLOYER SURVEY	2.20	2.52	2.14	2.41	2.14	2.57	2.36	2.95	2.14	2.63	2.84	2.79	2.25	2.79
STUDENT EXIT SURVEY	2.56	2.60	2.91	2.84	2.82	2.96	2.56	2.98	2.47	2.79	2.81	2.75	2.58	2.86
INDIRECT ATTAINMENT	2.46	2.57	2.62	2.60	2.59	2.83	2.57	2.97	2.42	2.77	2.83	2.78	2.43	2.85
OVER ALL ATTAINMENT	2.49	2.25	2.22	2.11	2.13	2.14	2.09	1.89	2.11	2.37	2.14	2.11	2.09	2.01
% OVER ALL ATTAINMENT	82.86	74.92	74.14	70.32	71.09	71.42	69.79	63.60	70.20	79.14	71.24	70.26	69.65	67.05

F.A.  
23/11/23  
STAFF LIC

K. P. ...  
HOD  
23/11/23.



**NANDHA ENGINEERING COLLEGE (AUTONOMOUS), ERODE**  
**DEPARTMENT OF BIOMEDICAL ENGINEERING**  
**PO and PSO ATTAINMENT**  
**BATCH 2019-2023**  
**TARGET - 67%**

S.No	Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
			a	b	c	d	e	f	g	h	i	j	k	l				
1	C101	17EYA01 - Professional English - I				2.28					2.36	2.28	2.28	2.30				
2	C102	17MYB01 - Calculus and Solid Geometry	1.93	2.09	2.23	2.50	1.95	2.40	1.53		2.40		2.24	2.30	1.44			
3	C103	17PYB01 - Physics for Engineers	2.61	2.81		2.92	2.97			2.83					1.94		1.71	
4	C104	17CYB02 - Applied Electrochemistry	1.72		1.98			2.04	1.49	1.99	2.09		1.98	2.30	1.52		1.47	
5	C105	17CSC02 - Python Programming	2.15	1.95	1.72	2.13		1.91			1.90	1.35	1.95	1.41		1.87	1.46	1.85
6	C106	17ECC01- Electronic Devices	2.53	2.59	2.43	2.94		1.95			1.62	1.95	2.60	2.90	2.72		2.53	2.34
7	C107	17CSP02 - Python Programming Laboratory	2.53	2.69	2.92		2.96				2.28	1.93	1.62			2.53		
8	C108	17GYP02 - Engineering Practices Laboratory	2.92			1.94	0.99	1.94		1.94	0.97	1.97	2.27	1.95	0.99		1.97	
9	C109	17EYA02 - Professional English – II						1.90			2.70	2.90		2.90				
10	C110	17MYB02 - Complex Analysis and Laplace Transforms	2.90	2.10	1.90	2.90	2.00	2.20	2.70		1.90		2.50		1.90			2.10
11	C111	17PYB07 - Physics for Biomedical Engineers	2.46	2.95		2.96	2.95	2.95							1.96		1.97	2.71
12	C112	17CYB05 - Chemistry for Biomedical Engineers	2.72	2.70	2.85	1.90	1.76	2.80	1.87	1.73			1.70		2.17			
13	C113	17MEC01 - Engineering Graphics	2.57		1.83	1.83	0.38				1.83		2.21	2.21			0.92	
14	C114	17ECC03 - Circuit Theory	2.92	2.91	2.92	2.92		2.91			2.68		1.94	1.95	1.94		1.94	
15	C115	17GYP01 - Physics and Chemistry Laboratory	1.80	1.80		1.80			1.80					2.90	1.90			1.90
16	C116	17ECP01 - Circuits and Devices Laboratory	2.90	2.90	1.90	2.90	1.00	2.00	2.90			1.90	2.30		1.90		1.90	
17	C201	17MYB05 - Transforms and Partial Differential Equations	2.85	1.52	0.76				1.13						1.90	1.90		
18	C202	17ECC23 - Basics of Electrical Engineering	2.50	1.92	2.89	1.95		2.57			1.92	2.92	1.94	2.89	0.96		0.96	

19	C203	17MEC23 - Engineering Mechanics for Biomedical Engineers	2.84	2.91		1.95	1.88	2.94						2.47				
20	C204	17ITC03 - Data Structures and Algorithms	2.60	2.60	2.30	2.10				2.60	2.70	2.70	2.60		2.30			
21	C205	17ECC06 - Digital Logic Design	2.90	1.93	2.91			2.58		1.92	2.92	2.57	2.89	1.93		0.97		
22	C206	17BMC01 - Anatomy and Human Physiology	2.00	2.00	2.00	1.80		2.00				1.50	1.80	2.90		1.80	2.00	
23	C207	17ECP03 - Digital Logic Design Laboratory	2.92	2.60	2.92	2.91	1.94	1.96	1.95			1.95	1.95	0.97	2.92		1.56	
24	C208	17BMP01 - Human Physiology Laboratory	2.3	2.3	1	1.9	1.9	1	1			1.9	1	2.9	2.1		1.5	2.9
25	C209	17MYB09 - Probability and Random Processes	1.85	1.34	1.34				1.36							1.35		1.35
26	C210	17ECC07 - Signals and Systems	2.83	2.42		2.95	1.97	2.30				2.59	1.73	1.84	1.82		1.30	
27	C211	17ECC11 - Analog Circuit Design	2.92	2.43	2.93	2.43		2.92		2.43	2.43	0.97	1.95	1.95		1.95		
28	C212	17BMC02 - Sensors and Signal Conditioning	2.24	1.80	1.60	1.60		1.60					1.44	1.28		1.92	1.60	
29	C213	17BMC03 - Bio Control Systems	2.58	1.72	1.03	1.89		1.29	0.86				1.03	1.55		1.15	1.29	
30	C214	17ITC08 - Fundamentals of Java Programming	2.62	2.26			1.10								1.87			
31	C215	17ECP06 - Analog Circuit Design Laboratory	2.92	2.27	1.95	2.91	0.97	2.94	1.95			1.95	0.98	2.92	1.95		2.14	
32	C216	17BMP02 - Sensors and Signal Conditioning Laboratory	2.53	1.95								1.95	0.97		1.95		0.97	
33	C301	17CYB03 - Environmental Science	1.72	1.72	1.70			2.28	2.13	2.28	2.28	2.27						
34	C302	17GEA02- Principles of Management			2.40	2.40	1.60	2.40	0.80	1.60	2.10	1.60	2.40			1.60		
35	C303	17ECC16 - Analog and Digital Communication	2.85	2.83	2.34	2.36	1.95	2.42			2.36	2.37	1.84	2.90	1.52		1.14	
36	C304	17BMC04 - Biosignal Processing	2.80	2.20	1.90	2.10		1.90							2.80		1.30	2.60
37	C305	17BMC05 - Bio Medical Instrumentation-I	2.39	1.65	1.65	1.59	1.69	1.67	1.42	1.59					2.48		2.48	2.48
38	C306	17BMX36 - Biomechanics	2.49	1.98	1.98		1.65					0.83		1.66	2.49		1.63	1.50
39	C307	17BMP03 - Biosignal Processing Laboratory	2.94	2.96	2.91	1.97		1.97			2.96		0.98	1.32	2.56		1.97	1.57
40	C308	17BMP04 - Biomedical Instrumentation-I Laboratory	2.94	2.94	2.91	1.97		1.96			2.92		0.98	1.31	2.55		1.96	2.94
41	C309	17ECC13 - Microprocessors and Microcontrollers Interfacing	1.19	1.04	1.42	1.31	1.58						1.12		0.89	1.10	1.19	1.33
42	C310	17BMC06 - Medical Image Processing	1.66	1.24	1.20	1.78		1.33						1.74	1.66	0.55	1.10	1.44

43	C311	17BMC07 - Biomedical Instrumentation-II	2.02	1.44	1.12	1.33			1.47					0.75	2.13		2.13	1.42
44	C312	17BMX12 - Biomaterials	2.68	2.68	1.79	1.79		0.89	0.89					1.79	2.68		1.79	1.43
45	C313	17BMX03 - Telehealth Technology	1.72		0.62	0.90		1.25	1.47	1.86					1.84		0.61	1.22
46	C314	17ECP08 - Microprocessors and Microcontrollers Laboratory	2.91	2.92	2.44	2.68	1.94	1.95			2.91		1.95		1.56		2.14	1.95
47	C315	17BMP05 - Biomedical Instrumentation-II Laboratory	2.59	2.43	1.29	1.94			1.94					1.94	2.91		1.94	2.91
48	C401	17BMC08 - Medical Imaging Techniques	2.38	1.53	1.58			1.58							1.58		1.58	2.37
49	C402	17BMC09 - Rehabilitation Engineering	2.90	2.37	1.86	1.92	1.93	1.95	1.80					2.94	2.59		0.93	1.86
50	C403	17GEA04 - Professional Ethics and Human Values						2.24		2.08	1.60			1.60			0.80	
51	C404	17BMX04 - Artificial Organs and Implants	2.44	1.62	1.62	1.62	1.62	1.95	1.62					0.81	1.79		0.81	1.62
52	C405	17BMP06 - Hospital Internship	2.94	1.96	1.96	1.76	1.95	2.94	1.95	1.96	1.56	2.28		1.96	0.98			1.96
53	C406	17BMD01 - Project work-I	2.82	2.82	2.25	2.25	2.82	2.82	2.82	2.82	2.82			1.88	2.82	1.88	2.82	2.82
54	C407	17BMX12 - Hospital Management	2.4		1.32	1.59		1.43	1.32	1.59	1.58			0.79	1.59		1.59	2.38
55	C408	17BMD02 - Project work-II	2.64	2.08	2.26	2.27	2.83	2.83	2.83	2.83	2.83	2.84	2.84	1.89	2.83	2.83	2.83	2.83
SUM			127.48	101.87	86.83	91.84	48.28	86.86	43.00	27.10	57.52	47.78	54.01	71.63	88.31	18.18	66.43	58.67
DIRECT ATTAINMENT OUT OF 3			2.50	2.21	1.97	2.14	1.86	2.12	1.72	2.08	2.21	2.17	1.86	1.99	2.01	1.82	1.62	2.02
% of DIRECT ATTAINMENT			83.32	73.82	65.78	71.19	61.90	70.62	57.33	69.49	73.74	72.39	62.08	66.32	66.90	60.60	54.01	67.44
ALUMNI SURVEY			2.43	2.43	2.43	2.57	2.36	2.36	2.43	2.57	2.29	2.50	2.29	2.29	2.43	2.29	2.36	2.21
EMPLOYER SURVEY			2.62	2.54	2.62	2.38	2.38	2.62	2.69	2.46	2.54	2.62	2.62	2.62	2.54	2.38	2.31	2.46
STUDENT EXIT SURVEY			2.39	2.33	2.56	2.44	2.50	2.47	2.42	2.58	2.47	2.42	2.47	2.42	2.39	2.39	2.44	2.53
INDIRECT ATTAINMENT			2.48	2.43	2.53	2.47	2.41	2.48	2.51	2.54	2.43	2.51	2.46	2.44	2.45	2.35	2.37	2.40
OVER ALL ATTAINMENT			2.50	2.26	2.09	2.20	1.97	2.19	1.88	2.18	2.26	2.24	1.98	2.08	2.10	1.93	1.77	2.10
% OVER ALL ATTAINMENT			83.17	75.28	69.51	73.40	65.61	73.04	62.62	72.51	75.21	74.65	66.05	69.32	69.87	64.17	59.00	69.96

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17CHC13	Chemical Equipment Design - I	C304	Mr.K. Rajasekaran / Chemical	5	2.59	2.59	2.59	2.59	2.52	1.84					1.84	2.78	2.52	1.85	2.05	2.78			
17CHX02	Biochemical Engineering	C305	Mr.A.Sakthisaravanan/ Chemical	5	2.18	2.18	2.37	2.38	2.07	1.71	1.73				1.66	1.69	1.71	2.10	2.26	2.00	1.99		
17CHX06	Petroleum Refining Engineering	C306	Mr.B.Vinothkumar / Chemical	5	1.91	1.91	1.91	1.72	1.91									1.71	1.91	1.90	1.91		
17CHP06	Process Heat Transfer Laboratory	C307	Mr.S. Pandiarajan / Chemical	5	2.97	2.97	2.18	2.18									2.18	2.18	2.18	2.18	2.18		
17CHP07	Chemical Reaction Engineering Laboratory	C308	Mr.B.Vinothkumar / Chemical	5	1.98	1.98	2.77	1.98	1.98						1.98			1.73	1.98	1.98	1.98		
17CHC14	Mass Transfer -II (Embedded)	C309	Mr.S.Pandiarajan/ Chemical	6	2.65	2.65	1.93	1.82										2.65	1.96	1.96	1.98		
17CHC15	Chemical Equipment Design - II	C310	Mr.K. Rajasekaran / Chemical	6	2.00	1.95	2.12		2.12									1.54			1.56		
17CHC16	Process Instrumentation Dynamics and Control	C311	Mr.M.C. Jawahar Chemical	6	1.75	1.75	1.79	1.88	1.62									1.82	1.61	1.77	1.76	1.75	1.75
17CHC17	Chemical Process Plant Safety and Hazard Analysis	C312	Mr.B.Vinothkumar / Chemical	6	2.78	1.88		1.92	1.86	2.78	1.87			2.61	2.61						1.84	1.87	
17CHX09	Chemical Process Utilities	C313	Ms.M.Geetha / Chemical	6	2.24		2.05	2.06										2.40	2.58	2.06			
17GEA03	Total Quality Management	C314	Mr.S. Keerthika/Chemical	6				2.22	1.72				2.06	1.89						1.70	1.70	1.93	1.88
17CHIP08	Process Computation Laboratory	C315	Ms.M.Geetha / Chemical	6	1.96	2.15	2.15	1.96	1.96											1.96	2.15	2.35	2.35
17CHIP09	Industrial Training	C316	Dr.N. Subramanian /Chemical	6	2.93	2.44	1.95	1.95	1.95	1.95	1.95				2.95	2.95		2.93	1.95	1.95	2.93	2.44	
17CHC18	Process Engineering Economics and Management	C401	Mr.K. Rajasekaran / Chemical	7	2.09	1.39	1.46	1.71	1.71	1.46	2.09	1.72	1.76	1.63	2.54			1.75	1.51	1.68	1.51		
17CHC19	Transport Phenomena	C402	Mr.B.Vinothkumar / Chemical	7	1.44	1.44	1.44	1.44	0.96						0.96			0.96	0.96	0.96	0.96	1.44	
17CHC20	Process Modeling and Simulation	C403	Ms.A. Geetha / Chemical	7	2.01	2.17	1.84	1.71	1.88							1.71	1.71	2.30	2.17	1.67	2.17		
17CHX16	Pulp and Paper Technology	C404	Dr.A.Murugesan / Chemical	7	2.02	1.70	1.70	1.70	1.72	1.45	2.18								1.88	1.72	1.88	1.56	
17CHP10	Process Dynamic and Control Laboratory	C405	Mr.M.C.Jawahar Chemical	7	2.57	2.77	2.38	2.18	2.18							2.18	2.18	2.97	2.77	2.18	2.77		
17CHD01	Project work I	C406	Dr.N. Subramanian /Chemical	7	2.54	2.28	1.95	2.69	2.93	1.95	2.60	1.95	1.95	2.94	1.95	1.95	1.95	1.95	2.93	2.74	2.54		
17CHX10	Separation and Purification Processes	C407	Mr.S. Pandiarajan / Chemical	8	2.50	1.85	1.91	1.87										1.86	2.50		1.86		
17CHD02	Project Work - II	C408	Dr.N. Subramanian /Chemical	8	2.54	2.28	1.95	2.69	2.93	1.95	2.60	1.95	1.95	2.94	1.95	1.95	1.95	1.95	2.93	2.74	2.54		
	Direct Assessment (PO Attainment)				2.21	2.11	2.01	1.95	1.86	1.76	1.96	1.75	1.84	2.13	1.88	1.97	1.87	1.86	1.93	1.89			
	% of Direct Assessment (% of PO Attainment)				74	70	67	65	62	59	65	58	61	71	63	66	62	62	64	63			
	Student Exit Survey				2.74	2.77	2.71	2.81	2.74	2.79	2.72	2.84	2.79	2.74	2.87	2.84	2.91	2.89	2.84	2.86			
	Alumni Survey				2.84	2.88	2.83	2.87	2.74	2.91	2.8	2.88	2.81	2.81	2.91	2.84	2.85	2.74	2.8	2.91			
	Employer Survey				2.82	2.83	2.84	2.79	2.82	2.79	2.81	2.88	2.91	2.88	2.79	2.73	2.79	2.82	2.82	2.87			
	Indirect Assessment				2.80	2.83	2.79	2.82	2.77	2.83	2.78	2.87	2.84	2.81	2.86	2.80	2.85	2.82	2.82	2.88			
	Final Attainment (80% of Direct Assessment + 20% of Indirect Assessment)				2.32	2.25	2.17	2.12	2.04	1.97	2.13	1.98	2.04	2.26	2.08	2.13	2.07	2.05	2.11	2.09			
	% of Final Attainment				77.5	75.1	72.2	70.8	68.2	65.8	70.9	65.9	67.9	75.5	69.3	71.2	69.0	68.5	70.4	69.5			

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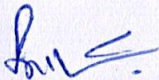
**NANDHA ENGINEERING COLLEGE (AUTONOMOUS), ERODE - 638052**  
**DEPARTMENT OF CSE**  
**OVERALL ATTAINMENT OF CO - PO & CO - PSO**  
**BATCH : 2019 - 2023**

Course Code	Course Name	STAFF NAME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
C101	17EYA01 - Professional English - I	Dr V. Saraladevi Ms K.S Punithaasree						2.00			3.00	3.00		3.00				2.40
C102	17MYB01 - Calculus and Solid Geometry	Mr.P.Jaishankar	2.00	1.33	1.33	0.67	0.67	0.67	0.00	0.00	0.67	0.00	1.33	1.20	0.00	1.33	0.00	1.33
C103	17PYB02-Physics for Computer Engineers	Ms.J.Chitra	1.80	1.00	1.25	1.00	1.00	1.00						1.20	1.00			1.00
C104	17CYB03-Environmental Science	Ms N.Santhiya	2.25	1.40	2.20			1.40	2.20						2.00	1.33	2.00	1.00
C105	17CSC02-Python Programming	Ms.S.Kavitha Ms.S.Hemalatha	3.00	2.60	3.00	2.00	3.00			1.00	1.50	3.00	3.00	3.00	3.00	3.00	3.00	3.00
C106	17MEP01-Engineering Graphics Laboratory	Mr.M.Yeswanth Mr KU. Manikandhan	2.00	2.40	1.00	1.40	2.20	1.00	1.00	1.40	2.00	1.00	1.00	1.40	1.80	1.80	2.00	1.00
C107	17CSP02-Python Programming Laboratory	Ms.S.Kavitha Ms.S.Hemalatha	2.21	1.75	1.76	1.27		1.02			1.39	1.33	1.78	1.70	1.56	1.87	1.75	1.47
C108	17EYA02-Professional English- II	Dr V. Saraladevi Ms K.S Punithashree						2.00			3.00	3.00		3.00				2.40
C109	17MYB02-Complex Analysis and Laplace Transforms	Mr.P.Jaisankar Ms.M.Bharathi	2.00	1.33	1.33	0.67	0.67	0.67	0.67	1.33	0.67	0.67	1.33	1.33	0.00	1.33	0.00	1.20
C110	17PYB04-Applied Physics	Ms.J.Chitra	2.40	1.67	1.67	1.75								1.60	1.00			1.00
C111	17CYB04-Chemistry for Computer Engineers	Ms N.Santhiya	1.80	1.20	1.00	2.00		1.00	1.67		1.00	1.00	1.50	1.00				1.00
C112	17CSC03-Structured Programming	Ms.S.Kavitha	3.00	2.60	3.00	2.00	3.00			1.00	1.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
C113	17ECC04-Basics of Electronics Engineering	N.Manikandaprabu Ms.K.K.Sangeetha	3.00	3.00	2.60	3.00	2.50	2.00	2.00					2.00				
C114	17CSP03-Structured Programming Laboratory	Ms.S.Kavitha Ms.M.Parvathi	2.80	2.20	1.25	2.20		1.00			1.67	1.00	2.00	2.00	3.00	3.00	3.00	3.00
C115	17ECP02-Electronics Laboratory	M.Srinevasan/S.Brindha E.K.Arulkarthick/ N.Manikandaprabu	3.00	3.00	3.00	2.00	2.00	2.00	2.00			3.00	2.00	2.00				

Course Code	Course Name	STAFF NAME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	
C201	17MYB04-Probability and Statistics	Mr.P.Jaishankar	3.00	2.00		3.00	2.00							2.00		2.00		2.00	
C202	17CSC04-Data Structures using Python	Mr.V.Manimaran	2.20	2.00	3.00	3.00			3.00	2.00			1.60	3.00		3.00	3.00	3.00	
C203	17ITC01-OOPS using JAVA	Mr.C.Balasubramaniam Mr.V.Yuvaraj	2.20	2.20	3.00	3.00	2.80	1.25	3.00	2.80	2.00	2.00	3.00	3.00	3.00	3.00	2.60	2.00	
C204	17CSC05-Operating Systems	Dr.J.Senthil Ms.S.Kavitha	2.60	1.67	2.50	3.00		1.50	1.00	1.00		1.00	1.00	2.50	2.40	1.75	1.00	1.20	
C205	17ECC09-Digital Principles and System Design	Mr.E.K.Arulkarthick Mr.Prabhakaran	2.80	2.60	2.50	2.00	2.50							2.00	2.60	2.40	2.25		
C206	17CSC06-Microprocessor and Computer Architecture	Dr.D.Vanathi Ms.C.Navamani	1.80	1.00	2.20		2.00			1.00			2.00	1.40	2.50	2.50	1.60	1.75	
C207	17ITP01-OOPS using JAVA Laboratory	Mr.C.Balasubramaniam Mr.V.Yuvaraj	2.20	2.00	3.00	3.00	2.80	1.25	3.00	2.80	2.00	2.00	3.00	3.00	3.00	3.00	2.60	2.00	
C208	17CSP04-Operating Systems Laboratory	Ms.S.Kavitha Ms.M.Deepika	3.00	2.60	4.20	2.00	2.60	1.20	1.20					2.20	3.00	2.80	2.80	2.20	
C209	17MYB08-Discrete Mathematics	Mr.P.Jaishankar	3.00	2.00		2.00								2.00		2.00		2.00	
C210	17ITC04-Design and Analysis of Algorithms	Dr.D.Vanathi Ms.M.Deepika	2.50	3.00	2.00	1.75	2.00	1.00			2.00		2.67	3.00		3.00	1.00	1.60	
C211	17CSC07-Database Management System	Dr.S.Karuppusamy Ms.S.Kavitha	3.00	3.00	3.00	2.80	2.60	3.00		2.50	2.75		3.00	3.00	3.00	3.00	3.00	3.00	
C212	17CSC08-Computer Networks	Dr.J.Senthil Mr.C.Balasubramaniam	3.00	3.00	3.00	2.33	3.00	3.00		3.00	3.00	3.00		3.00	3.00	3.00	3.00	3.00	
C213	17CSC09-Artificial Intelligence	Ms.C.Navamani Ms.P.Uma	3.00	3.00	3.00	3.00					3.00	2.80	3.00		2.60	2.80	2.60	3.00	
C214	17GEA01-Engineering Economics and Financial Accounting	Mr.L.Jothibasu Mr.J.Tamilarasu	1.80	1.60	1.40	1.00	1.80	1.00	1.50	2.00	1.50		2.50	2.60				3.00	
C215	17CSP05-Database System Laboratory	Dr.S.Karuppusamy Ms.S.Kavitha	3.00	3.00	3.00	3.00	2.00		2.00			2.00	3.00		3.00	3.00	3.00	3.00	
C216	17CSP06-Computer Networks Laboratory	Mr.P.Uma Ms.C.Navamani	3.00	3.00	3.00	2.60	3.00						3.00		3.00	3.00	3.00	3.00	
C301	17CSC10-Theory of Computation	Ms.S.Maheswari Ms.K.Shanmugapriya	3.00	3.00	3.00								3.00	2.60	2.40	2.00	1.60	2.26	1.67

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C302	17ITC09-Internet and Web Programming	Ms.B.Deepa Dr.S.Prabhu	3.00	3.00	2.40	2.60	2.80	2.80	2.00		3.00		3.00	3.00	3.00	3.00	3.00	3.00
C303	17CSC11-Object Oriented Software Engineering	Dr.P.Thirumoorthy Dr.S.Karuppusamy	2.00	1.50	1.80	1.60	1.50	1.33	1.25	1.00	1.25	1.20	1.80	2.00	1.00	2.00	2.40	1.80
C304	17CSC12-Graphics and Multimedia	Mrs.C.Navamani Mr.S.Jegadeesan	2.20	1.80	2.20	1.80	2.40	1.80	1.80	1.80	2.60			2.20	1.00	1.60	1.80	1.80
C305	17CSX10-Mobile Application Development	Mr.K.Gunasekar Ms.P.Vanitha	3.00	3.00	2.75	2.00	2.00				2.00		3.00	3.00	2.80	2.40	2.20	2.20
C306	17CSX05-Network Analysis and Management	Dr.D.Vanathi Ms.S.Kavitha	2.60	2.60	2.20	1.50	2.33	1.50	1.33	2.25	1.75	2.20	2.50	2.60	1.80	2.20	1.20	3.00
C307	17CSP07-Case Tools Laboratory	Dr.S.Karuppusamy Ms.D.Vinoparkavi	2.60	1.80	2.67	2.00	2.00		1.50		2.00		1.40	2.60	1.00	1.00	2.00	2.00
C308	17CSP08-Graphics and Multimedia Laboratory	Mrs.C.Navamani Ms.P.Vanitha	2.20	1.00	1.00	1.00	1.80	1.60	1.40	1.40	1.80			2.60	2.00	2.20	1.80	1.80
C309	17CSC14-Cloud Computing	Dr.P.Thirumoorthy O.Abila Anju	3.00	3.00	3.00	3.00	3.00				3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
C310	7CSC15-Security in Computing	Mrs.P.Vanitha Mrs.S.Kavitha	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00		3.00	3.00	2.00		3.00
C311	17CSC16-Principles of Compiler Design	Mrs.S.Maheswari Ms.D.Vinoparkavi	2.20	2.00	2.00	2.20								2.20	3.00	2.80	2.20	2.80
C312	17CSX29-Internet of Things	Mrs.C.Navamani Mrs.P.Devika	2.40	2.75	2.50	3.00	2.00	1.00	3.00			1.00	1.40	2.20	2.80	2.20	2.00	2.20
C313	17CSX21-Software Project Management	Mrs.P.Uma Mrs.B.Deepa	3.00	2.60	2.60	3.00	2.20	2.00	2.00	1.60	2.00	2.00	3.00	2.60	2.80	3.00	2.40	2.80
C314	17CSX31-Problem Solving and Programming	O.Abila Anju	3.00	2.60	3.00	2.00	3.00			1.00	1.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
C315	17CSP09-Internet of Things Laboratory	Mrs.P.Vanitha Mrs.S.Kavitha Mrs.K.Shanmugapriya	3.00	2.00	2.33	2.00	2.50		2.00			2.00	1.80	2.20	2.60	2.80	2.80	3.00
C401	17CSC17-Mobile Computing	Mr.S.Jegadeesan Ms.A.Mageswari	2.80	2.80	3.00	3.00					2.20	2.20	2.20		3.00	3.00	3.00	3.00
C402	17CSC18-Full Stack Development	Mrs.C.Navamani Ms.D.Vinoparkavi	3.00	2.00	3.00							1.00	3.00		2.00	3.00	3.00	3.00
C403	17ITC15-Machine Learning Techniques	Mrs.P.Uma Mrs.K.Shanmugapriya	3.00	2.60	2.50	2.00	2.00	2.00			2.00	2.00	2.00	2.00	2.00	3.00	3.00	3.00

Course Code	Course Name	STAFF NAME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
C404	17CSP10-Mobile Computing Laboratory	Ms.A.Mageswari Ms.D.Vinoparkavi Mrs.S.Geetha	3.00		3.00	3.00					3.00	2.00	2.40		3.00	3.00	3.00	3.00
C405	17CSD01-Project Work I	Mrs.B.Deepa Mrs.S.Geetha Ms.A.Mageswari	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
C406	17CSX37-Professional Readiness for Innovation, Employability and Entrepreneurship	Mrs.E.Padma Ms. S.Kavitha	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
C407	17ITX05-PHP Programming	Ms.V.Mythily	3.00	3.00	3.00	3.00								3.00	2.00	3.00	3.00	2.00
C408	17CSD02-Project Work II	Ms.B.DEEPA, Ms.S.KAVITHA, Ms.P.UMA	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	2.80	2.60	2.80	2.80
<b>SUM</b>			137.36	118.20	123.14	108.13	85.66	54.98	52.51	42.88	71.74	72.40	86.81	115.73	103.06	115.32	102.06	118.42
<b>DIRECT ATTAINMENT OUT OF 3</b>			2.64	2.32	2.46	2.25	2.32	1.72	1.94	1.86	2.11	2.13	2.35	2.41	2.34	2.51	2.37	2.32
<b>% of DIRECT ATTAINMENT</b>			88.05	77.25	82.09	75.09	77.17	57.27	64.83	62.15	70.33	70.98	78.21	80.37	78.08	83.56	79.12	77.40
<b>ALUMNI SURVEY</b>			2.65	2.66	2.64	2.72	2.37	2.38	2.19	2.35	2.17	2.44	2.75	2.34	2.86	2.84	2.79	2.95
<b>EMPLOYER SURVEY</b>			2.41	2.55	2.72	2.35	2.20	2.20	2.27	2.20	2.27	2.89	2.25	2.65	2.69	2.53	2.92	
<b>STUDENT EXIT SURVEY</b>			2.57	2.46	2.48	2.39	2.45	2.50	2.56	2.52	2.56	2.50	2.56	2.59	2.65	2.53	2.55	2.56
<b>INDIRECT ATTAINMENT</b>			2.54	2.56	2.61	2.49	2.34	2.34	2.32	2.38	2.31	2.40	2.73	2.39	2.72	2.69	2.62	2.81
<b>OVER ALL ATTAINMENT</b>			2.62	2.37	2.49	2.30	2.32	1.84	2.02	1.97	2.15	2.18	2.42	2.41	2.42	2.54	2.42	2.42
<b>% OVER ALL ATTAINMENT</b>			87.4	78.8	83.1	76.7	77.3	61.4	67.3	65.6	71.7	72.8	80.8	80.3	80.6	84.8	80.8	80.7

  
ACADEMIC COORDINATOR

  
HOD/CSE



NANDHA ENGINEERING COLLEGE, AUTONOMOUS, ERODE- 52

DEPARTMENT OF ECE

PO - PSO ARTICULATION MATRIX - 2019 - 2023 PASSED OUT

COURSE CODE	SUBJECT NAME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
C101	17EYA01 – PROFESSIONAL ENGLISH-I						1			2	2		1		1	1	
C102	17MYB01 - CALCULUS AND SOLID	2	1	-	1	1	1	1	1	-	1	1	1	2	1	-	1
C103	17PYB01 - PHYSICS FOR ENGINEERS	-	2	2	-	1	1	-	-	1	2	1	1	1	-	2	-
C104	17CYB02 - APPLIED ELECTRO CHEMISTRY	3	-	3	-	-	3	2	3	3	-	3	3	2	2	3	2
C105	17CSC02 - PYTHON PROGRAMMING	1	1	1	-	-	-	-	-	-	1	1		1			
C106	17ECC01 – ELECTRONIC DEVICES	2	1	1	2	-	1	-	-	1	-	1	2	2	1	1	1
C107	17CSP02 – PYTHON PROGRAMMING LABORATORY	1	2	2	-	1	-	-	-	1	-	1	-	3	2	1	3
C108	17GYP02 – ENGINEERING PRACTISES LAB	2	-	-	2	3	2	-	2	2	2	2	2	2	2	2	2
C109	17EYA02 – PROFESSIONAL ENGLISH-II	-	-	-	-	-	1	-	-	1	2	-	1	-	1	1	-
C110	17MYB02 - COMPLEX ANALYSIS AND LAPLACE TRANSFORMS	3	2	-	1	2	1	2	1	-	1	2	2	3	1	-	2
C111	17PYB05 – PHYSICS OF SOLIDS	1	1	-	1	1	1	-	-	-	-	-	-	1	-	1	-
C112	17CYB03 - ENVIRONMENTAL SCIENCE	2	2	2	-	-	3	3	3	3	3	-	-	2	1	2	1
C113	17MEC01 - ENGINEERING GRAPHICS	2	-	2	2	2	-	-	-	2	-	2	2	3	3	1	1
C114	17ECC03 - CIRCUIT THEORY	2	2	1	-	-	2	-	-	2	1	1	1	2	2	2	2
C115	17GYP01 - PHYSICS AND CHEMISTRY LABORATORY	2	2	-	3	-	3	2	2	-	-	3	3	2	2	2	2
C116	17ECP01 - CIRCUIT AND DEVICES	2		1	1	2		-	-	-	-	2	1	3	1	-	2
C201	17MYB05 - Transforms and Partial Differential	3	2	1				1		-	-	-	-	2	1		
C202	17ITC03 - Data Structures and Algorithms	3	3	2	2	3	3	-	-	2	-	3	2	3	2	2	-
C203	17ECC05 - Electrical Machines and instruments	2	1	1	0	-	1	-	-	1	2	1	0	3	1	0	2
C204	17ECC06 - Digital Logic Design	3	3	2	1	-	1	-	-	1	1	1	0	3	3	2	3
C205	17ECC07 - Signals and Systems	3	1	1				-	-				1	-		1	3
C206	17ECC08 - Analog Electronics	3	2	1	2	-			-	-	1	-	-	2	1	0	1
C207	17ECP03 - Digital Logic Design Laboratory	3	2	3	3	2	2	2	-	3	3	3	3	3	3	3	3
C208	17ECP04 - Analog Electronics Laboratory	2		1		1		-	-	-	-	1		2	2		2
C209	17MYB09 - Probability and Random Processes	2	2	2	-	-	-	2	-	-	-	-	-	1	2	2	2
C210	17ITC08 - Fundamentals of Java Programming	2	2	2	2	2	2	-	-	2	-	2	2	-	2	2	2
C211	17ECC10 - Electromagnetic Fields	3	2	2	2	2	2	2	2	-	2	2	1	1	1	1	1
C212	17ECC11 - Analog Circuit Design	3	2	1	1		1	-	-	1	-			-	1		-
C213	17ECC12 - Digital Signal Processing	3	3	2	2	-	2	3	-	-	2	-	-	2	1	2	2
C214a	17ECX04 - Sensors and its application	3	3	2	2	-	2	3	-	-	2	-	-	2	1	3	2
C214b	17ECX01 - Medical Electronics	2	1	2	2	2	1	-	-	2	-	2	2	-	1	1	-
C215	17ECP06 - Analog Circuit Design Laboratory	2	1											3	2		1
C216	17ECP07 - Digital Signal Processing Laboratory	3	3	2	2	-	3	-	-	3	-	-	3	3	2	2	2

C301	17GEA02 - Principles of Management	-	3	2	2	1	3	2	1	1	1	-	-	3	2	-	
C302	17ECC13 - Microprocessors and Microcontrollers Interfacing	2	3	2	3	-	-	-	-	-	2	-	3	2	1	2	
C303	17ECC14 - Data Communication and Networks	3	3	2	2	3	-	2	2	2	-	2	2	3	1	2	3
C304	17ECC15 - Transmission Lines and Waveguides	2	2	1	2	2	2	-	-	2	-	1	1	-	2	1	2
C305	17ECX08 - Digital Image Processing	3	2	2	2	3	2	2	2	3	3	-	3	2	3	2	3
C306a	17ECX06 - Computer Hardware Interfacing	2	3	2	2	2	2	3			2	2	2		3	2	2
C306b	17ITC12 - Database System Concepts	1	1	1	1	1	-	-	-	-	-	2	-	3	0	1	2
C307	17ECX19 - Cryptography network security	2	2	2	-	1	-	2	-	2	1	-	1	2	1	1	1
C308	17ECP08 - Microprocessors and Microcontrollers Interfacing Laboratory	2	2	1	1	1	1	-	-	1	2	1	2	1	1	1	1
C309	17ECP09 - Data Communication and Networks	3	2	2	2	3	2	2	2	3	3	-	3	2	3	2	3
C310	17ECC16 - Analog and Digital Communication	1	1	1	-	1	1	1	-	-	-	-	1	1	1	-	1
C311	17ECC17 - VLSI Design	2	2	1	2	1	3	-	-	-	2	-	-	2	2	2	2
C312	17ECX14 - Multimedia Compression Techniques	2	2	2	1	2	2	2	2	3	3	-	3	1	2	1	2
C313	17ECX16 - Internet of things	3	3	2	2	2	3	3	-	2	3	3	-	1	2	1	2
C314	17GEA03 - Total Quality Management	3	2	1	3	3	-	2	3	-	-	-	2	1	2	2	2
C315	17ECP10 - Analog and Digital Communication	1	1	1	1	1	1	-	-	1	2	1	2	1	2	1	1
C316	17ECP11 - VLSI Design Laboratory	1	1	1	1	1	1	1	1	1	1	2	1	2	1	1	1
C401	17ECC19 - Microwave Engineering	2	2	2	1	2	2	-	-	2	2	2	2	2	1	1	1
C402	17ECC20 - Optical Communication	2	1	1	1	2	2	1	1	-	2	2	2	2	1	1	1
C403	17ECC21 - Embedded and Real Time Systems	3	2	2	2	-	2	1	-	2	2	2	2	1	2	1	2
C404	17ECC18 - Antenna and Wave Propagation	2	2	2	2	2	3	-	-	3	-	2	2	1	2	1	2
C405	17ECP12 - Microwave and Optical Laboratory	2	2	2	2	2	3	-	-	-	1	-	3	2	1	2	1
C406	17ECP13 - Embedded Systems Laboratory	3	3	3	3	3	3	3	3	3	3	-	-	3	2	1	2
C407	17ECD01 - Project Phase - I	3	3	3	3	3	3	3	3	3	3	-	-	3	3	3	3
C408	17ECD02 - Project Phase - II	3	3	3	3	3	3	3	3	3	3	-	-	3	3	3	3

Weighted Average	2.46	2.23	1.99	2.03	2.22	2.22	2.31	2.33	2.26	2.27	2.02	2.11	2.36	2.03	1.97	2.13
% of Direct Assessment	82	74	66	68	74	74	77	78	75	76	67	70	79	68	66	71

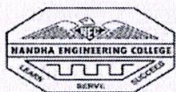
<b>ALUMNI SURVEY</b>	2.32	2.47	2.42	2.47	2.42	2.37	2.37	2.42	2.47	2.58	2.37	2.37	2.37	2.42	2.37	2.47
<b>EMPLOYER SURVEY</b>	2.00	2.00	2.14	2.14	2.29	2.57	2.29	2.57	2.43	2.71	2.29	2.29	2.43	2.29	2.43	2.29
<b>STUDENT EXIT SURVEY</b>	2.51	2.41	2.43	2.32	2.39	2.44	2.49	2.44	2.45	2.44	2.49	2.52	2.51	2.42	2.41	2.42
<b>INDIRECT ATTAINMENT</b>	2.28	2.29	2.33	2.31	2.37	2.46	2.38	2.48	2.45	2.58	2.38	2.39	2.44	2.38	2.40	2.39

<b>OVER ALL ATTAINMENT</b>	2.42	2.25	2.06	2.08	2.25	2.26	2.32	2.36	2.30	2.33	2.09	2.16	2.37	2.10	2.06	2.19
<b>% OVER ALL ATTAINMENT</b>	80.7	74.9	68.6	69.5	74.9	75.5	77.5	78.7	76.7	77.6	69.7	72.2	79.1	70.1	68.5	72.8

Average PO% for 2023 passed out	74.7
Average PSO% for 2023 passed out	72.6

*S. Anil*





**NANDHA ENGINEERING COLLEGE (AUTONOMOUS), ERODE**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**PO and PSO ATTAINMENT**  
**BATCH 2019-2023**  
**TARGET - 67%**

S.No	Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
			a	b	c	d	e	f	g	h	i	j	k	l				
1	C101	17EYA01 - Professional English - I	0	0	0	0	2	0	0	2	2	2	1	2	0	0	2	0
2	C102	17MYB01 - Calculus and Solid Geometry	2	2	1	1	0	1	0	0	2	0	1	1	1	1	0	1
3	C103	17PYB01 - Physics for Engineers	3	3	3	3	3	3	0	2	0	0	0	3	2	2	3	2
4	C104	17CYB02 - Applied Electrochemistry	3	0	3	0	0	3	2	3	3	0	3	3	2	2	3	2
5	C105	17MECO1 - Engineering Graphics	3	3	3	3	3	3	3	1	0	0	3	3	3	3	3	3
6	C106	17CSC02 - Python Programming	3	3	3	0	0	0	0	1	3	3	3	1	3	0	3	2
7	C107	17CSP02 - Python Programming Laboratory	2	3	2	0	3	0	0	2	3	3	3	1	3	3	3	2
8	C108	17GYP02 - Engineering Practices Laboratory	3	3	3	2	3	3	3	3	3	3	1	3	3	2	0	3
9	C111	17EYA02 - Professional English - II	0	0	0	0	2	0	0	2	2	2	1	2	0	0	2	0
10	C112	17MYB02 - Complex Analysis and Laplace Transforms	2	2	1	1	0	1	0	0	2	0	1	1	1	1	0	1
11	C113	17PYB05 - Physics of Solids	3	2	2	3	0	0	0	3	0	0	1	3	2	1	0	2
12	C114	17CYB03 - Environmental Science	2	2	2	0	0	3	3	3	3	3	1	1	2	1	2	1
13	C115	17GYC01 - Basics of Civil and Mechanical Engineering	2	2	3	2	2	3	2	3	3	2	3	3	0	3	0	3
14	C116	17EEC02 - Electric Circuit Theory	3	3	3	3	3	3	2	3	0	0	1	2	3	3	3	3
15	C117	17GYP01 - Physics and Chemistry Laboratory	2	2	0	3	0	3	2	2	0	0	3	3	2	2	2	2
16	C118	17EEP01 - Electric Circuits Laboratory	3	3	3	3	3	2	3	3	3	3	1	3	3	3	3	3

S.No	Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
			a	b	c	d	e	f	g	h	i	j	k	l				
17	C201	17MYB05 - Transforms and Partial Differential Equations	2	2	1	1	0	1	0	0	2	1	1	1	1	1	0	2
18	C202	17EEC03 - Electronic Devices and Circuits	2	2	2	2	0	1	0	1	2	1	2	1	2	2	0	2
19	C203	17EEC04 - Electrical Machines I	2	3	3	2	0	0	0	1	0	0	1	1	2	2	0	2
20	C204	17EEC05 - Field Theory	2	3	3	3	3	2	3	3	0	0	3	1	3	3	3	3
21	C205	17EEC06 - Power Plant Engineering	2	2	2	2	1	2	0	2	1	0	1	2	2	2	1	1
22	C206	17ITC03 - Data Structures and Algorithms	1	3	3	3	0	0	0	1	3	3	3	1	2	2	2	2
23	C207	17EEP02 - Electronic Devices and Circuits Laboratory	2	2	3	3	3	3	0	2	3	3	3	2	2	2	2	2
24	C208	17EEP03 - Electrical Machines I Laboratory	1	3	3	3	0	3	0	2	0	0	1	2	2	2	2	2
25	C211	17MYB10 - Probability, Statistics and Numerical	2	2	1	1	0	1	0	0	2	1	1	1	1	1	0	2
26	C212	17EEC07 - Electrical Machines II	2	2	2	2	2	0	0	1	0	0	1	1	2	2	0	2
27	C213	17EEC08 - Linear Integrated Circuits	2	2	2	3	3	2	0	2	0	0	3	3	2	2	2	2
28	C214	17EEC09 - Digital Logic Circuits	3	3	3	3	3	0	0	2	0	0	2	3	3	3	0	3
29	C215	17EEC10 - Transmission and Distribution	2	2	2	3	1	2	0	2	0	0	2	2	2	3	0	2
30	C216	17ITC08 - Fundamentals of Java Programming	1	2	2	0	0	0	0	1	0	3	3	1	3	3	2	3
31	C217	17EEX01 - Fundamentals of Fiber Optics and Laser	2	1	1	2	2	0	0	1	3	2	3	2	2	2	0	2
32	C218	17EEP04 - Electrical Machines II Laboratory	2	2	2	3	3	3	3	2	2	0	1	2	3	2	2	2
33	C219	17EEP05 - Linear and Digital Integrated Circuits	2	3	3	3	3	3	3	2	0	0	1	2	3	3	2	3
34	C301	17GEA02 - Principles of Management	0	0	0	0	0	0	0	3	3	3	3	3	0	0	3	1
35	C302	17EEC11 - Measurements and Instrumentation	2	2	2	3	2	1	0	2	0	0	1	2	3	3	0	2
36	C303	17EEC12 - Control Systems	2	2	2	2	1	2	0	2	1	0	1	2	2	2	1	1

S.No	Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
			a	b	c	d	e	f	g	h	i	j	k	l				
37	C304	17EEC13 - Power Electronics	2	2	2	2	2	2	2	2	1	0	2	2	2	2	0	2
38	C305	17EEC14 - Communication Engineering	2	1	1	2	1	1	1	2	1	0	1	2	1	2	0	2
39	C306	17ITC12 - Data Base Systems Concepts	3	3	3	0	0	0	0	1	0	3	3	1	3	3	3	3
40	C307	17EEX16 - High Voltage Engineering	2	2	2	3	1	2	0	2	0	0	1	2	2	3	0	2
41	C308	17EEX10 - Special Electrical Machines	3	2	2	2	2	1	0	3	0	0	1	2	1	2	1	1
42	C309	17EEP06 - Control and Instrumentation Laboratory	2	2	1	2	1	3	0	2	3	2	3	2	3	3	3	3
43	C310	17EEP07 - Power Electronics Laboratory	2	2	3	2	1	1	0	2	0	0	2	2	3	3	2	3
44	C311	17EEC15 - Power System Analysis	2	1	2	3	2	1	0	2	1	0	2	2	3	2	0	2
45	C312	17EEC16 - Microprocessor and Microcontroller	2	2	2	2	2	0	0	2	0	0	2	2	2	2	0	2
46	C313	17EEX11 - Bio Medical Instrumentation and its	2	2	1	1	0	0	2	2	0	0	2	1	2	1	0	2
47	C314	17EEX18 - Power Quality	2	2	2	3	2	0	0	2	2	0	2	2	2	2	2	2
48	C315	17EEX13 - Power Electronics For Renewable Energy	2	1	2	3	2	0	2	2	0	0	2	2	2	2	0	2
49	C316	17GEA03 - Total Quality Management	0	0	0	0	0	0	0	3	3	3	3	3	0	0	3	2
50	C317	17EYZ04 - Employability Enhancement and Analytical	0	0	0	0	2	0	0	2	2	2	1	2	0	0	2	1
51	C318	17CSZ07 - Web Services using JAVA	1	2	2	0	0	0	0	1	0	3	3	1	3	3	2	3
52	C319	17EEP08 - Microprocessor and Microcontroller	2	3	2	3	3	3	2	2	3	0	3	3	3	2	2	2
53	C401	17EEC17 - Electric Drives and Control	2	2	2	2	1	1	0	2	1	0	2	1	2	2	0	2
54	C402	17EEC18 - Power System Protection and Switch Gear	2	2	2	2	1	1	0	2	1	0	2	1	2	2	0	2
55	C403	17EEC19 - Principles of Embedded Systems	2	2	2	2	1	1	1	2	0	0	1	2	2	2	0	2
56	C404	17EEC20 - Power System Operation and Control	3	3	3	3	2	3	2	2	3	0	3	3	3	3	3	3

S.No	Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
			a	b	c	d	e	f	g	h	i	j	k	l				
57	C405	17EEX20 - Flexible AC Transmission Systems	2	2	2	2	2	0	0	2	1	2	2	2	2	3	2	2
58	C406	17EEP09 - Power System Simulation Laboratory	2	2	2	3	2	3	0	2	0	0	3	3	3	3	0	2
59	C407	17EED01 - Project Work I	3	3	3	3	2	3	3	3	3	3	3	2	3	3	2	3
60	C411	17EEX22 - Fundamentals of Electric Power Utilization	2	2	2	2	0	1	1	2	0	0	2	1	2	2	1	2
61	C412	17EED02 - Project Work II	3	3	3	3	2	3	3	3	3	3	3	2	3	3	2	3
<b>SUM</b>			121.06	119.41	117.72	117.13	84.29	83.41	47.17	115.88	77.37	57.58	114.57	114.35	122.52	119.98	78.31	120.90
<b>DIRECT ATTAINMENT OUT OF 3</b>			1.98	1.96	1.93	1.92	1.38	1.37	0.77	1.90	1.27	0.94	1.88	1.87	2.01	1.97	1.28	1.98
<b>% of DIRECT ATTAINMENT</b>			66.15	65.25	64.33	64.00	46.06	45.58	25.78	63.32	42.28	31.46	62.61	62.49	66.95	65.56	42.79	66.06
<b>ALUMNI SURVEY</b>			2.71	2.43	2.38	2.41	2.68	2.62	2.71	2.49	2.57	2.36	2.59	2.75	2.53	2.45	2.58	2.65
<b>EMPLOYER SURVEY</b>			2.59	2.48	2.34	2.42	2.68	2.54	2.55	2.51	2.67	2.58	2.54	2.68	2.42	2.44	2.48	2.59
<b>STUDENT EXIT SURVEY</b>			2.57	2.49	2.53	2.54	2.46	2.53	2.47	2.56	2.46	2.54	2.48	2.41	2.55	2.47	2.39	2.49
<b>INDIRECT ATTAINMENT</b>			2.62	2.47	2.42	2.46	2.61	2.56	2.58	2.52	2.57	2.49	2.54	2.61	2.50	2.45	2.48	2.58
<b>OVER ALL ATTAINMENT</b>			<b>2.11</b>	<b>2.06</b>	<b>2.03</b>	<b>2.03</b>	<b>1.63</b>	<b>1.61</b>	<b>1.13</b>	<b>2.02</b>	<b>1.53</b>	<b>1.25</b>	<b>2.01</b>	<b>2.02</b>	<b>2.11</b>	<b>2.06</b>	<b>1.52</b>	<b>2.10</b>
<b>% OVER ALL ATTAINMENT</b>			<b>70.42</b>	<b>68.65</b>	<b>67.57</b>	<b>67.58</b>	<b>54.22</b>	<b>53.55</b>	<b>37.80</b>	<b>67.47</b>	<b>50.94</b>	<b>41.79</b>	<b>67.00</b>	<b>67.42</b>	<b>68.59</b>	<b>67.19</b>	<b>46.79</b>	<b>68.05</b>

Faculty Incharge

*[Handwritten Signature]*  
30/11/23

*[Handwritten Signature]*  
10/11/23

**NANDHA ENGINEERING COLLEGE (AUTONOMOUS), ERODE - 638052**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**ATTAINMENT PO - PSO**

**BATCH : 2019 - 2023**

Attainment Attrication Matrics

**SUBJECT  
CODE**

**SUBJECT NAME**

			SEM I															
			P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	PSO1	PSO2	PSO3	PSO4
101	17EYA01	Professional English - I						1.30	0.60	0.30	0.90	2.00		0.60				
102	17MYB01	Calculus and Solid Geometry	2.26	1.51	0.89									1.51	1.51			1.05
103	17PYB01	Physics for Engineers	1.43	1.43	1.43	1.43	1.73					0.71	1.43	1.43	1.43	1.43	1.43	0.71
104	17CYB01	Applied Chemistry	1.00	1.00			1.00		1.00				1.00		1.00	1.00		1.00
105	17MEC01	Engineering Graphics	2.00		2.00	2.00	2.00				2.00		2.00	2.00	3.00	3.00	1.00	1.00
106	17ECC02	Basic Electrical, Electronics and Instrumentation Engineering	1.00	1.00	1.00	0.00	1.00	1.00							1.00	2.00	1.00	1.00
107	17GYP01	Physics and Chemistry Laboratory	0.88	2.00		0.80		0.73	2.00			0.72	1.72		0.95	1.20	0.66	
108	17GYP02	Engineering Practice Laboratory	2.00			2.00	3.00	2.00		2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
			SEM II															
109	17EYA02	Professional English - II						1.45	1.00	1.00	1.62	3.00		3.00		2.00	2.00	
110	17MYB02	Complex Analysis and Laplace Transform	1.26	0.84										0.84	0.84	0.80	0.83	0.61
111	17PYB03	Materials Physics	1.08	2.00	2.00								0.84	0.93				
112	17CYB03	Environmental Science	2.21								1.92		1.90	1.92	0.74	0.75	0.74	0.74
113	17MEC02	Engineering Mechanics	1.16	2.00	2.00	1.06						0.50	2.00	0.78		0.96	0.96	
114	17CSC01	Problem Solving and Python Programming	1.21	1.78	2.43							1.06	1.01		1.49	0.80	0.51	

115	17MEP02	Computer Aided Modeling and Drafting Laboratory	2.15	2.73	1.76	1.56	1.17	0.98	1.76	0.98	0.98	1.30	1.63	1.95	1.76	2.73	2.34	2.34
116	17CSP01	Problem Solving and Python Programming Laboratory	3.00	2.00	2.00		1.00				2.00	1.00	2.00		3.00	3.00	3.00	3.00

SEM III

201	17MYB03	Fourier Series and Partial Differential Equations	2.00	2.00	1.17	1.00	1.20	1.00			1.00		2.00	2.00		2.00	1.00	2.00
202	17MEC03	Materials Engineering and Technology	2.00	2.00				2.00					2.00	2.00				1.00
203	17MEC04	Engineering Thermodynamics	2.00	3.00	2.00	2.00	2.00	1.00			2.00		2.20	3.00		3.00	1.00	2.00
204	17MEC05	Fluid Mechanics and Machinery (Theory+Lab)	2.40	1.58	2.39	1.99	2.23	1.11		0.80		0.80	1.91	1.91	2.40	1.91	2.38	1.59
205	17MEC06	Manufacturing Processes	2.00				2.00						2.00	2.00				2.00
206	17MEP03	Manufacturing Processes Laboratory	2.56	1.96	1.83	1.97	1.77	1.77		1.48		2.45	2.21	1.72	2.63	1.98	1.97	1.31
207	17MEP04	Computer Aided Machine Drawing Laboratory	1.96	2.94				1.96		1.96	1.96		2.55	2.55	2.55			

SEM IV

208	17MYB06	Statistics and Numerical Methods	1.79	1.19	0.60									1.19	1.19			0.84
209	17MEC08	Kinematics of Machinery (Theory + Lab)	2.75	2.73	2.75	1.85			1.83			1.83	2.00	1.83	1.86	1.81	1.83	
210	17MEC09	Thermal Engineering Systems	1.00	1.00	1.42	1.00	1.00	1.00			1.00		1.43	1.00		1.00	1.00	1.00
211	17MEC10	Subtractive Manufacturing Processes	2.79				1.85			1.11			1.29	0.77	2.79	1.78	1.48	0.55
212	17MEC11	Strength of Materials (Theory + Lab)	1.93	2.12	1.93	1.90	1.93	2.24					2.31	2.89	1.93	1.54	2.12	1.61
213	17MEX18	Metal Casting Technology	2.00				2.00						2.00	2.00				1.00
214	17MEX32	Renewable Sources of Energy	2.25	2.25			2.24		2.25			2.23	2.34	2.07		1.73	1.73	1.73
215	17MEP05	Thermal Engineering Systems Laboratory	2.93	2.54				2.54		2.54	2.35		2.34	2.35	2.34	2.44	2.34	2.54
216	17MEP06	Subtractive Manufacturing Processes Laboratory	2.95	1.96	1.96	1.96	1.96	0.98			0.98	0.98	2.75	2.35	2.55	2.55	2.55	0.98

SEM V

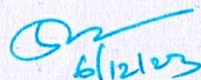
301	17MEC13	Design of Machine Elements	2.57	2.56	2.53	2.56	1.72	1.72					1.88	2.57	2.39	1.90	1.72	
302	17MEC14	Heat and Mass Transfer (Theory + Lab)	2.54	1.18	2.37	1.68	2.37	1.18		0.85		0.85	2.20	2.20	2.54	2.40	1.52	1.18

303	17MEC15	Dynamics of Machinery	1.56	1.92	1.73		1.75	1.67	2.53				1.78	1.90	0.84	1.43	2.12		
304	17MEC16	Fluid Power System	2.15	1.79	1.72	1.43	1.88	0.89			0.72	0.72	1.88	1.58	2.21	1.29	1.15		
305	17MEX12	Internal Combustion Engines	2.40	1.99				2.50	2.03		2.17	2.15	2.03	2.16	1.55	1.88	2.57		
306	17MEX04	Product Design	2.40	2.23				2.52	2.15			2.07	2.32	2.23	1.94	2.37	0.86	1.37	
307	17MEX18	Metal Casting Technology	2.32	1.61				1.69	2.24			2.32	1.81	2.31	2.48	2.49	1.77	0.91	
308	17GEA05	Engineering Economics and Cost Analysis	2.24	2.24				1.68	2.17			1.90	2.33	2.24		2.24	2.06		
309	17MEP08	Dynamics of Machinery Laboratory	2.94	1.96	2.29			1.96				2.94	2.74	2.55	2.55	2.70	2.45		
<b>SEM VI</b>																			
310	17MEC17	Mechatronics	2.57	1.70	1.71	1.71	1.28	0.57	1.37			0.86	2.36	2.13	2.22	2.16	1.20		
311	17MEC18	Design of Transmission Systems	1.80	1.70	1.80	1.20	1.30	1.20					1.80	1.80	1.80	0.60	0.60		
312	17MEC19	Metrology and Measurements (Theory + Lab)	1.80	1.66	1.81							1.95	1.66	1.80	1.80	1.66	1.54		
313	17MEX16	Automobile Engineering	2.41	2.23	2.40	2.23	2.23	2.41		2.23		2.23	2.24	2.24	2.23	2.40	2.58	2.40	
314	17MEX07	Design for Manufacturing and Assembly	2.05	1.43				1.67	2.20			2.06	1.55	2.15	2.47	2.23	1.59	0.72	
315	17MEX06	Tribology	2.61	2.27	1.92		2.17					2.39		2.44	1.74	1.74	1.74		
316	17MEX21	Non- Destructive Testing and Evaluation	2.12	1.41	0.95	1.27	1.75		0.85	0.71	0.99	0.56	0.86	1.37	1.84	1.27	0.85		
317	17MEP09	Mechatronics Laboratory	2.90	2.90	2.90	1.93	2.91		1.93				1.93	2.13	2.90	1.93	1.93		
<b>SEM VII</b>																			
401	17MEC20	CAD / CAM/CIM	1.75	1.99	1.75	1.63		1.52	1.94				2.18	1.28	1.17	1.37	1.17		
402	17MEC21	Finite Element Analysis	1.55	1.18	1.15	1.09	1.39			0.57	0.60	0.61	0.82	1.06	1.56	1.29	0.69		
403	17MEC22	Power Plant Technology	2.18	1.89	2.18	1.45	2.48			0.73	0.87	2.18	2.18	2.38	1.18	2.18	2.18	2.18	
404	17GEA03	Total Quality Management		1.81	1.73		1.92	1.03		0.79					1.81	1.73	1.23		
405	17MEP10	CAD / CAM Laboratory	2.91		2.91	2.91	2.91					2.92		1.94		2.91	3.00	3.00	
406	17MEP11	Computer Aided Analysis Laboratory	3.00	3.00	3.00	2.00	3.00					2.00	2.00	2.00	2.00	3.00	2.00	2.00	0.97

407	17MED01	Project Work - I	2.15	1.66	1.65	1.38	1.54	1.49	0.83	0.83	1.82	1.49	0.99	1.66	1.55	1.00	0.83	
SEM VIII																		
C408	17MEX26	New Venture Planning and Management	1.76	1.29				1.00	1.49			1.51	1.58	1.39	1.01	1.74	1.40	
C409	17MED02	Project Work - II	2.66	2.89	2.81	2.41	2.90			0.97	2.90		2.70	2.90	2.72	2.62	2.58	

	115	94	73	49	67	50	32	20	36	51	93	95	89	94	79	44
AVERAGE	2.10	1.92	1.92	1.65	1.90	1.51	1.69	1.17	1.62	1.61	1.89	1.90	1.94	1.88	1.62	1.37
% ATTAINMENT	77.79	84.20	84.93	77.55	87.96	79.26	81.65	79.08	86.23	80.76	87.68	79.89	78.73	82.51	81.48	79.59

Pasted From Surveys	ALUMNI SURVEY	2.92	3.00	2.98	2.91	2.96	2.81	2.98	2.91	2.92	2.87	2.97	2.96	2.69	2.98	2.10	2.90
	EMPLOYER SURVEY	2.97	2.93	2.96	2.78	2.94	2.88	2.81	2.77	2.94	2.84	2.98	2.95	2.76	2.96	1.83	2.91
	STUDENT EXIT SURVEY	3.00	2.95	2.92	2.86	2.93	2.86	2.93	2.81	2.86	2.93	3.00	2.92	2.97	2.97	2.05	2.91
	INDIRECT ATTAINMENT	2.96	2.96	2.95	2.85	2.94	2.85	2.91	2.83	2.91	2.88	2.98	2.94	2.81	2.97	2.00	2.91
		P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	PSO1	PSO2	PSO3	PSO4
	Overall 80% Direct + 20% Indirect (3 point scale)	2.27	2.13	2.12	1.89	2.11	1.78	1.94	1.50	1.88	1.86	2.11	2.11	2.12	2.10	1.69	1.68
	Overall 80% Direct + 20% Indirect (%)	75.65	70.92	70.82	62.91	70.35	59.21	64.53	50.00	62.65	62.00	70.40	70.21	70.51	70.06	56.40	55.99

  
 6/12/23  
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NANDHA ENGINEERING COLLEGE (AUTONOMOUS), ERODE - 638052  
DEPARTMENT OF INFORMATION TECHNOLOGY  
OVERALL ATTAINMENT OF CO - PO & CO - PSO  
BATCH : 2019 - 2023

Course Code	Course Name	STAFF NAME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
17EYA01	Professional English- I	Ms.P.Kavitha/English						2.00			2.78	3.00		3.00				3.00
17MYB01	Calculus and SolidGeometry	Ms.M.Bharathi/Maths	2.00	2.00	2.00	1.00	2.00	3.00	3.00			2.00		2.00		3.00	1.00	2.00
17PYB02	Physics for ComputerEngineers	Ms.Chitra/Physics	1.80	1.00	2.00	2.00	1.70	3.00						2.00	1.70			2.00
17CYB03	Environmental Science	Ms.P.Sandhiya/Chemistry	2.25	1.00	2.00			1.00	2.00									
17CSC02	Python Programming	Ms.P.Dhivya/IT	2.00	2.30	2.00	3.00	1.34	1.40	2.00		2.00			2.00	2.00	2.00	1.00	2.00
17MEP01	Engineering Graphics Laboratory	Ms.M.Nandhakumar/Mech	2.00	2.67	2.00	3.00	2.50	1.00	1.00	2.00	1.00	1.00	2.00	2.34	2.56	1.00	2.00	2.00
17CSP02	Python Programming Laboratory	Ms.P.Dhivya/IT	2.00	1.00	2.00	3.00	3.00	2.00	2.00		2.00			3.00	1.00	1.00	2.00	3.00
17EYA02	Professional English- II	Ms.P.Kavitha/English					2.00			3.00	3.00		3.00					2.40
17MYB02	Complex Analysis and Laplace Transforms	Ms.M.Bharathi/Maths	2.00	1.45	2.00	2.00	2.45	2.00	2.00	2.00	2.45	2.00	2.34	1.00	1.00	1.00	2.00	2.00
17PYB04	Applied Physics	Ms.Chitra/Physics	2.40	1.67	2.00	2.00								1.60	1.00			1.00
17CYB04	Chemistry for computer Engineers	Ms.P.Sandhiya/Chemistry	2.00	1.00	1.00	2.00		1.00	2.00		1.00	1.00	2.00	1.00				
17CSC03	Structured Programming		3.00	2.00	3.00	2.00	3.00			2.00	2.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
17ECC04	Basics of Electronics Engineering.	Mr.E.K.Arulkarthick AP/ECE	3.00	3.00	2.60	3.00	2.50	2.00	2.00					2.00				
17CSP03	Structured Programming lab		2.80	2.00	1.24	3.00		2.00			1.67	1.00	2.00	3.00	3.00	3.00	3.00	3.00
17ECP02	Electronics Laboratory	Mr.E.K.Arulkarthick AP/ECE	3.00	3.00	3.00	2.00	2.00	2.00			3.00	2.00	2.00					
17MYB04	Probability and Statistics	Ms.M.Bharathi/Maths	3.00	2.00		3.00	2.00							2.00		2.00		2.00
17CSC04	Data Structures using Python	Mr.C.Santhosh/IT	2.00	3.00	2.00	2.00	2.00	2.00	3.00			2.00	1.00	2.00		3.00	1.00	
17ITC01	OOPS using Java	Mr.K.S.Giriprasath/IT	3.00	2.00	2.00	2.00	3.00		3.00		3.00	3.00	2.00	3.00	3.00	3.00	3.00	3.00
17ITC02	Computer Architecture andOrganization	Ms.C.Vasuki/IT	3.00	2.00	2.00	1.00	1.00	1.00			1.00		2.00	2.00		2.00		
17ECC22	Digital Electronics and Microprocessor	Mr.M.Srinevasan/ECE	2.00	2.00	2.00	1.00	2.00	1.00	2.00	1.00			2.00		2.00		2.00	1.00
17ITP01	OOPS using Java Laboratory	Mr.K.S.Giriprasath/IT	3.00	2.00	1.00	2.00		1.00			2.00	1.00	2.00	2.00	3.00	3.00	3.00	3.00
17ECP05	Digital Electronics and Microprocessor Laboratory	Mr.M.Srinevasan/ECE	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00			3.00		3.00		3.00	3.00
17MYB08	Discrete Mathematics	Ms. M. Bharathi/Maths	3.00	2.00		2.00								2.00		2.00		2.00
17ITC04	Design and Analysis ofAlgorithms	Ms.N.Abinaya / IT	2.61	2.64	1.78	1.78	0.93	0.88			0.89		1.79	1.76	2.64	2.11	1.24	
17ITC05	Computer Networks and Internets	Ms.C.Vasuki/IT	2.61	2.64	1.78	1.78	0.93	0.88			0.89		1.79	1.76	2.64	2.11	1.24	
17CSC07	Database Management System	Mr.C.Santhosh /IT	2.61	2.64	1.78	1.78	0.93	0.88			0.89		1.79	1.76	2.64	2.11	1.24	
17ITC06	Operating System Principles	Dr.C.Siva/IT	3.00	2.00		3.00	2.00						2.00		2.00			2.00
17ITC07	Software Engineering	Ms.Suguna Angamuthu / IT	2.59	2.89	2.70	2.80	3.00		2.59	2.89	2.59	3.00	2.43	2.44	2.89	3.00	2.67	2.70
17ITP02	Computer Networks andInternets Laboratory	Ms.C.Vasuki/IT	2.50	2.50	2.00			2.00			1.67	1.00	1.67		2.80	2.00	2.00	
17CSP05	Database Management SystemLaboratory	Mr.C.Santhosh /IT	2.00	3.00	2.00	3.00	2.00	2.00			2.60		2.67	3.00	2.30	2.60	3.00	
17ITP03	Operating System PrinciplesLaboratory	Dr.C.Siva/IT	3.00	2.00	2.00		2.00	2.00	2.00			3.00		3.00	1.00	3.00	2.00	
17ECC12	Digital Signal Processing	Ms.K.Gayathridevi,AP/ECE	2.00	2.00	1.56	2.40	2.67		2.00	2.00	2.00			2.00	1.00	2.00	1.00	1.00
17ITC09	Internet and Web Programming	Ms.D.Kiruthika,AP/IT	2.82	2.80	2.25	2.44	2.63	2.63	1.88		2.82		2.82	2.82	2.82	2.82	2.82	2.82
17ITC10	Object Oriented Analysis & Design	Ms.C.Vasuki,ASP/IT	3.00	2.00	2.00	1.00	1.00	1.00			1.00		2.00	2.00		2.00		
17ITC11	Computer Graphics and Multimedia	Ms.K.Jothimani,AP/IT	2.00	3.00	3.00							2.00	2.00		2.00	3.00	3.00	3.00
17ITX14	Software Testing	Ms.Suguna Angamuthi,AP/IT	2.00	1.00	1.00	1.00	2.00	1.00	1.00	1.00		2.00	1.00	2.00	1.00	1.00		1.00
17ITX11	Principles of Cloud Computing	Dr.C.Siva,Prof&Head/IT	2.00	3.00	2.67		2.40		2.00	2.00		2.00		2.00	1.00	1.00	2.00	3.00
17ITP04	Case Tools Laboratory	Ms.C.Vasuki,ASP/IT	2.50	2.50	2.00			2.00			1.67	1.00	1.67		2.80	2.00	2.00	

17ITP05	Computer Graphics and Multimedia Laboratory.	Ms.K.Jothimani, AP/IT	3.00	2.00	2.00		2.00	2.00	2.00			3.00		3.00	1.00	3.00	2.00	
17CSC09	Artificial Intelligence	Ms.N.Abinaya, AP/IT	2.00	2.00								2.00	2.00					
17ITC13	Compiler Design	Ms.D.Kiruthika, AP/IT	1.82	1.82	1.40	1.40	1.82		1.45		1.32	1.21			1.82	1.82	1.58	1.69
17ITC14	Cryptography and Network Security	Ms.T.Arunkumar, AP/IT	2.00	2.00	2.40	2.80	2.00	3.00		2.23	2.80	2.20	2.00	2.00	2.00	2.00	3.00	3.00
17CSX29	Internet of Things	Ms.S.Sharnila, AP/IT	2.63	2.62	1.73	1.73	0.86	0.88			0.87		1.74	1.75	2.62	2.10	1.21	
17ITX04	Data Mining and Warehousing	Ms.K.Jothimani, AP/IT	2.00	2.00	2.00							2.00	2.00		2.00	3.00	3.00	3.00
17CSX20	Software Quality Assurance	Ms.Suguna Angamuthu, AP/IT	2.17	1.39			1.78											
17CSP09	Internet of Things Laboratory	Mr.Anand, AP/IT	2.50	2.50	2.00			2.00			0.29		0.87	2.10	0.52	0.86	0.70	
17GEA01	Engineering Economics and Financial Accounting	Mr.N.Senthikumar, AP/MBA	1.99	1.73	1.74	1.86	1.74	0.95	0.82	1.48	0.66	0.82	1.20	1.08	1.99	1.99	1.99	1.99
17ITC15	Machine Learning Techniques	Ms.Suguna Angamuthu, AP/IT	2.00	3.00	3.00	2.00	3.00	3.00		2.00					3.00	2.00	2.00	
17CSC18	Full Stack Development	Ms.D.Kiruthika, AP/IT	2.41	1.53	2.41							1.85	2.41		2.41	2.41	2.41	2.41
17ITX31	Professional readiness for innovation, employability & Entrepreneurship.	Ms.A.Bharathi, AP/IT	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
17CHZ01	Waste Water Treatment	Mr.S.Pandiarajan, AP/Chemical	1.67		1.83	1.67	1.83	1.66							1.67	1.68	1.83	1.67
17CEZ05	Waste Management	Mr. M. Yeswanth, ASP/Civil	3.00		3.00		3.00	3.00										
17EEZ01	Renewable Energy Technology	Dr. T. Jayakumar, AP/EEE	1.97		1.45	1.85	2.39	1.66	1.45									
17PYZ01	Nano Materials	Dr.V.Thayanithi, AP/Physics	2.18	1.92	2.18	1.46	2.18								2.39	1.77		1.39
17CYZ02	E-Waste Management	Ms.N.Santhiya AP/Chemistry	2.29	1.34	2.10			1.34	2.10	0.73	0.94	2.18	2.18	2.18	2.18	2.18	2.18	2.18
17EYZ05	Workplace Communication	Mrs.P.Kavitha, AP/English	2.30	3.00	3.00	2.56	3.00	3.00	2.45	2.00	2.00	3.00	2.00	3.00	2.00	3.00	2.00	2.00
17ITP06	Machine Learning Techniques	Ms.Suguna Angamuthu, AP/IT	3.00	3.00	2.00	3.00	3.00		2.00						3.00	2.00	2.00	
17ITD01	Project Work I	Dr.C.Siva, Prof&Head/IT, Ms.A.Bharathi, AP/IT	2.76	2.76	2.76	2.76	2.76	2.78	2.76	2.76	2.77	2.78	2.76	2.76	2.76	2.76	2.76	2.76
17ITD02	Project Work II	Dr.C.Siva, Prof&Head/IT	2.92	2.92	2.92	2.92	2.92	2.94	2.92	2.92	2.93	2.94	2.92	2.92	2.92	2.92	2.92	2.92
17ITX19	Information Security Management	Ms.S.R.Sriabirami, AP/IT	2.00	2.00	1.00	2.00	2.00	2.00				2.00	1.00	2.00	2.00	2.00	1.00	2.00
<b>SUM</b>			<b>141.10</b>	<b>121.23</b>	<b>111.28</b>	<b>125.99</b>	<b>97.26</b>	<b>78.88</b>	<b>59.42</b>	<b>38.01</b>	<b>65.17</b>	<b>66.98</b>	<b>78.72</b>	<b>91.27</b>	<b>93.26</b>	<b>105.02</b>	<b>90.58</b>	<b>82.53</b>
<b>DIRECT ATTAINMENT OUT OF 3</b>			<b>2.43</b>	<b>2.20</b>	<b>2.10</b>	<b>2.86</b>	<b>2.16</b>	<b>1.88</b>	<b>2.12</b>	<b>2.11</b>	<b>1.86</b>	<b>2.03</b>	<b>2.07</b>	<b>2.23</b>	<b>2.12</b>	<b>2.19</b>	<b>2.06</b>	<b>2.29</b>
<b>% of DIRECT ATTAINMENT</b>			<b>81.09</b>	<b>73.47</b>	<b>69.99</b>	<b>95.45</b>	<b>72.04</b>	<b>62.60</b>	<b>70.74</b>	<b>70.39</b>	<b>62.07</b>	<b>67.66</b>	<b>69.05</b>	<b>74.20</b>	<b>70.65</b>	<b>72.93</b>	<b>68.62</b>	<b>76.42</b>
<b>ALUMNI SURVEY</b>			<b>2.75</b>	<b>2.81</b>	<b>2.50</b>	<b>2.81</b>	<b>2.88</b>	<b>2.75</b>	<b>2.56</b>	<b>2.88</b>	<b>2.56</b>	<b>2.88</b>	<b>2.56</b>	<b>2.81</b>	<b>2.75</b>	<b>2.69</b>	<b>2.56</b>	<b>2.69</b>
<b>EMPLOYER SURVEY</b>			<b>2.36</b>	<b>2.66</b>	<b>2.72</b>	<b>2.35</b>	<b>2.20</b>	<b>2.89</b>	<b>2.67</b>	<b>2.27</b>	<b>2.89</b>	<b>2.27</b>	<b>2.89</b>	<b>2.78</b>	<b>2.89</b>	<b>2.67</b>	<b>2.89</b>	<b>2.56</b>
<b>STUDENT EXIT SURVEY</b>			<b>2.59</b>	<b>2.57</b>	<b>2.54</b>	<b>2.49</b>	<b>2.56</b>	<b>2.59</b>	<b>2.70</b>	<b>2.57</b>	<b>2.61</b>	<b>2.67</b>	<b>2.61</b>	<b>2.64</b>	<b>2.61</b>	<b>2.66</b>	<b>2.57</b>	<b>2.70</b>
<b>INDIRECT ATTAINMENT</b>			<b>2.57</b>	<b>2.68</b>	<b>2.59</b>	<b>2.55</b>	<b>2.55</b>	<b>2.74</b>	<b>2.64</b>	<b>2.57</b>	<b>2.69</b>	<b>2.61</b>	<b>2.69</b>	<b>2.74</b>	<b>2.75</b>	<b>2.67</b>	<b>2.67</b>	<b>2.65</b>
<b>OVER ALL ATTAINMENT</b>			<b>2.50</b>	<b>2.44</b>	<b>2.34</b>	<b>2.71</b>	<b>2.35</b>	<b>2.31</b>	<b>2.38</b>	<b>2.34</b>	<b>2.27</b>	<b>2.32</b>	<b>2.38</b>	<b>2.48</b>	<b>2.43</b>	<b>2.43</b>	<b>2.37</b>	<b>2.47</b>
<b>% OVER ALL ATTAINMENT</b>			<b>83.32</b>	<b>81.40</b>	<b>78.10</b>	<b>90.22</b>	<b>78.47</b>	<b>77.02</b>	<b>79.42</b>	<b>78.08</b>	<b>75.81</b>	<b>77.27</b>	<b>79.30</b>	<b>82.82</b>	<b>81.16</b>	<b>81.02</b>	<b>78.87</b>	<b>82.38</b>

*biat*  
ACADEMIC COORDINATOR

*[Signature]*  
HOD/IT