

Hindusthan College of Engineering and Technology
 An Autonomous Institution Affiliated to Anna University | Approved by AICTE, New Delhi
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 Valley Campus, Pollachi Highway, Coimbatore 641 032. | www.hicet.ac.in



DEPARTMENT OF BIOMEDICAL ENGINEERING



COs-POs AND PSOs ATTAINMENT BATCH-2020-2024

Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
19HE1101	TECHNICAL ENGLISH	-	-	-	-	-	-	-	-	3.00	3.00	3.00	3.00	-	-	-
19MA1103	CALCULUS AND DIFFERENTIAL EQUATIONS	3.00	3.00	3.00	2.40	2.80	-	-	-	-	-	-	2.00	1.80	2.00	1.80
19PH1151	APPLIED PHYSICS	2.40	2.40	2.40	1.60	1.60	-	-	-	-	-	-	1.60	1.60	1.60	1.60
19CY1151	CHEMISTRY FOR ENGINEERS	2.67	1.78	1.78	-	1.78	0.89	1.00	-	-	-	-	0.89	0.89	0.84	1.44
19CS1151	PYTHON PROGRAMMING AND PRACTICES	2.00	2.00	-	-	3.00	-	-	-	2.00	2.00	-	-	2.00	2.00	2.00
19EE1155	BASICS OF ELECTRICAL ENGINEERING	1.60	1.60	1.00	1.00	1.20	2.00	1.80	1.80	2.20	3.00	1.00	2.80	1.00	1.00	1.40
19HE2101	BUSINESS ENGLISH FOR ENGINEERS	1.47	1.53	0.93	0.93	1.13	1.87	1.67	1.67	2.07	2.80	1.00	2.67	1.00	0.89	1.33
19MA2102	COMPLEX VARIABLES AND TRANSFORM CALCULUS	2.80	2.80	2.80	2.27	2.27	-	-	-	-	-	-	1.87	1.87	1.87	1.33
19PH2151	MATERIAL SCIENCE	2.80	2.80	2.80	1.87	1.87	-	2.80	-	-	-	-	2.60	0.93	0.93	0.93
19CY2151	ENVIRONMENTAL STUDIES	2.00	1.00	1.67	-	-	2.00	3.00	3.00	2.00	-	-	2.00	-	-	1.40
19CS2152	ESSENTIAL OF C AND C++ PROGRAMMING	2.80	2.80	2.80	-	2.80	-	-	-	2.80	-	-	-	2.80	2.80	2.80
19ME2154	ENGINEERING GRAPHICS	2.40	2.40	2.40	-	2.40	-	-	-	2.40	-	-	-	2.40	2.40	2.40
19ME2001	ENGINEERING PRACTICES	2.00	2.00	2.00	2.00	2.00	-	-	-	2.00	-	-	-	2.00	-	-
19MA3102	FOURIER ANALYSIS AND TRANSFORMS	3.00	2.80	2.60	3.00	-	-	-	-	-	-	-	2.00	2.00	3.00	-
19BM3201	ELECTRON DEVICES AND CIRCUITS	1.73	1.60	2.40	1.60	1.60	-	-	-	-	-	-	1.60	2.40	1.60	2.40
19BM3202	MEDICAL BIOCHEMISTRY	3.00	2.00	-	-	-	2.00	-	-	-	-	-	2.00	3.00	-	-

19BM3203	HUMAN ANATOMY AND PHYSIOLOGY	2.00	2.00	2.00	2.00	-	2.00	-	-	-	-	-	2.00	2.00	2.00	2.00
19BM3251	DIGITAL ELECTRONICS	3.00	3.00	3.00	3.00	-	-	-	-	2.00	2.00	-	2.00	3.00	-	3.00
19BM3001	ELECTRON DEVICES AND CIRCUITS LAB	3.00	3.00	-	-	3.00	-	-	-	3.00	-	-	-	3.00	3.00	-
19BM3002	BIOCHEMISTRY LAB	3.00	3.00	3.00	-	3.00	-	-	-	3.00	-	-	2.00	3.00	-	-
19BM4201	LINEAR INTEGRATED CIRCUITS	2.40	2.40	2.40	-	2.40	-	-	-	2.50	-	-	1.60	2.40	-	-
19BM4202	BIO MEMS AND NANO TECHNOLOGY	1.46	1.33	1.60	-	-	-	-	-	-	-	-	-	1.46	1.60	0.93
19BM4203	PATHOLOGY AND MICROBIOLOGY	2.80	2.80	2.80	2.80	-	2.80	2.80	-	-	-	-	1.87	2.80	2.80	2.80
19MA4152	STATISTICS AND NUMERICAL METHODS	3.00	2.75	2.50	-	-	-	-	-	-	-	-	-	2.00	1.00	2.00
19BM4251	SENSOR AND MEASUREMENT	2.20	2.20	2.20	2.20	-	-	-	-	1.46	1.46	-	1.46	2.20	-	2.20
19BM4001	INTEGRATED CIRCUITS LAB	3.00	3.00	3.00	-	3.00	-	-	-	3.00	3.00	-	2.00	3.00	-	3.00
19BM4002	HUMAN PHYSIOLOGY LAB	2.80	2.00	2.50	2.00	2.00	-	-	-	3.00	-	-	2.00	1.00	2.80	1.00
19BM5201	BIOCONTROL SYSTEMS	2.00	2.00	2.00	2.00	-	-	-	-	-	-	-	-	2.00	2.00	2.00
19BM5202	BIOMECHANICS	2.00	2.00	2.00	2.00	-	2.00	-	-	-	-	-	1.33	2.00	2.00	2.00
19BM5203	MICROPROCESSORS AND MICROCONTROLLERS	3.00	3.00	3.00	3.00	-	-	-	-	-	-	-	-	3.00	-	3.00
19BM5204	BIOMEDICAL INSTRUMENTATION	2.80	2.00	2.50	2.00	2.00	-	-	-	3.00	-	-	2.00	3.00	2.80	1.00
19BM5301	PE-I : MEDICAL PHYSICS	3.00	3.00	-	-	-	-	3.00	-	-	-	-	2.00	3.00	3.00	3.00
19BM5251	VIRTUAL INSTRUMENTAION USING LABVIEW	1.33	1.33	-	-	2.00	-	-	-	2.00	1.33	-	1.33	2.00	2.00	-
19BM5001	MICROPROCESSORS AND MICROCONTROLLERS LAB	3.00	3.00	3.00	3.00	-	-	-	-	-	-	-	-	3.00	-	3.00
19BM5002	BIOMEDICAL INSTRUMENTATION LAB	2.80	2.00	2.50	2.00	2.00	-	-	-	3.00	-	-	2.00	3.00	2.80	1.00
19BM6201R	BIOSIGNAL PROCESSING	1.60	1.07	0.93	1.27	1.60	-	-	-	0.53	-	-	-	1.60	1.60	1.07
19BM6202	RADIOLOGICAL EQUIPMENTS AND NUCLEAR MEDICINE	2.00	1.33	1.33	-	-	2.00	2.00	-	-	-	-	1.33	2.00	2.00	2.00
19BM6301	PE-II:BIOMATERIALS AND ARTIFICIALS ORGANS	3.00	2.00	2.00	-	-	3.00	1.00	2.00	1.00	1.00	2.00	2.00	3.00	3.00	3.00
19BM6203	ENTREPRENEURSHIP DEVELOPMENT	-	-	-	-	1.46	1.46	-	-	1.46	1.46	2.20	-	-	-	1.46

19BM6251	DIAGNOSTIC AND THERAPEUTIC EQUIPMENT-I	0.80	0.40	0.80	0.40	0.80	0.80	-	-	0.40	-	-	0.40	1.20	1.20	1.20
19BM6001	BIOSIGNAL PROCESSING LABORATORY	3.00	3.00	-	-	3.00	-	-	-	3.00	2.00	-	2.00	-	3.00	-
19BM6701	INDUSTRIAL TRAINING	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
19BM7201	DIAGNOSTIC AND THERAPEUTIC EQUIPMENT-II	2.60	2.60	1.73	1.73	-	2.60	-	-	-	-	-	2.60	2.60	2.60	2.60
19BM7202	MEDICAL IMAGE PROCESSING	2.00	2.00	2.00	-	2.00	-	-	-	-	2.00	-	2.00	2.00	1.00	1.00
19BM7251	HOSPITAL MANAGEMENT	0.74	0.74	1.07	0.74	0.67	-	-	-	-	-	-	1.20	1.46	0.74	0.74
19BM7303	PE-III : ADVANCED BIOANALYTICAL AND THERAPEUTIC TECHNIQUES	2.00	2.00	2.00	2.00	-	1.33	0.67	-	-	-	-	1.33	2.00	2.00	2.00
19BM7001	IMAGE PROCESSING LAB	2.00	2.00	2.00	2.00	3.00	-	-	-	3.00	-	-	-	1.00	3.00	1.00
19BM72002	DIAGNOSTIC AND THERAPEUTIC EQUIPMENT LAB	2.00	2.00	-	2.00	3.00	-	-	-	-	3.00	-	2.00	3.00	3.00	3.00
19BM7901	PROJECT PHASE-I	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
19BM8306	REHABILITATION ENGINEERING	2.00	2.00	2.00	2.00	-	2.00	2.00	2.00	-	-	1.00	2.00	2.00	2.00	2.00
19BM8304	WEARABLE MEDICAL DEVICES	1.20	1.80	2.40	3.00	-	1.00	-	-	3.00	1.00	1.66	1.40	1.80	1.80	1.20
19BM8901	PROJECT PHASE-II	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
	PO ATTAINMENT DIRECT	2.36	2.20	2.23	2.09	2.21	2.04	2.20	2.43	2.35	2.24	2.09	1.95	2.19	2.12	1.95

Indirect Attainment (3 Scale)

Attainment of POs in 3 scale through indirect assessment methods for 2020-2024

Indirect Methods	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO 11	PO 12	PSO1	PSO2	PSO3
PARENTS FEEDBACK FORM	2.63	2.81	2.75	2.83	2.63	2.79	2.90	2.79	2.67	2.77	2.75	2.73	2.71	2.71	2.73
EMPLOYERS FEEDBACK FORM	2.70	2.87	2.77	2.77	2.77	2.80	2.83	2.83	2.77	2.77	2.77	2.87	2.93	2.77	2.80
ALUMNI FEEDBACK FORM	2.46	2.90	2.71	2.77	2.50	2.71	2.67	2.88	2.63	2.63	2.69	2.71	2.60	2.75	2.44
GRADUATE EXIT SURVEY	2.80	2.96	2.80	2.87	2.78	2.80	2.84	2.91	2.84	2.80	2.69	2.73	2.91	2.87	2.82
CO CURRICULAR	2.68	2.71	2.82	2.71	2.54	2.46	2.64	2.68	2.46	2.43	2.46	2.71	2.54	2.64	2.46
EXTRA CURRICULAR	2.43	2.82	2.82	2.68	2.57	2.61	2.64	2.82	2.68	2.50	2.79	2.79	2.61	2.79	2.50
AVERAGE	2.62	2.85	2.78	2.77	2.63	2.70	2.75	2.82	2.67	2.65	2.69	2.76	2.72	2.75	2.63

PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOMES															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Direct attainment (100%)	2.36	2.2	2.23	2.09	2.21	2.04	2.2	2.43	2.35	2.24	2.09	1.95	2.19	2.12	1.95
Direct attainment (80%)	1.89	1.76	1.78	1.67	1.77	1.63	1.76	1.94	1.88	1.79	1.67	1.56	1.75	1.70	1.56
Indirect attainment (100%)	2.62	2.85	2.78	2.77	2.63	2.7	2.75	2.82	2.67	2.65	2.69	2.76	2.72	2.75	2.63
Indirect attainment (20%)	0.524	0.57	0.556	0.554	0.526	0.54	0.55	0.564	0.534	0.53	0.538	0.552	0.544	0.55	0.526
Overall attainment	2.41	2.33	2.34	2.23	2.29	2.17	2.31	2.51	2.41	2.32	2.21	2.11	2.30	2.25	2.09



HOD/BME



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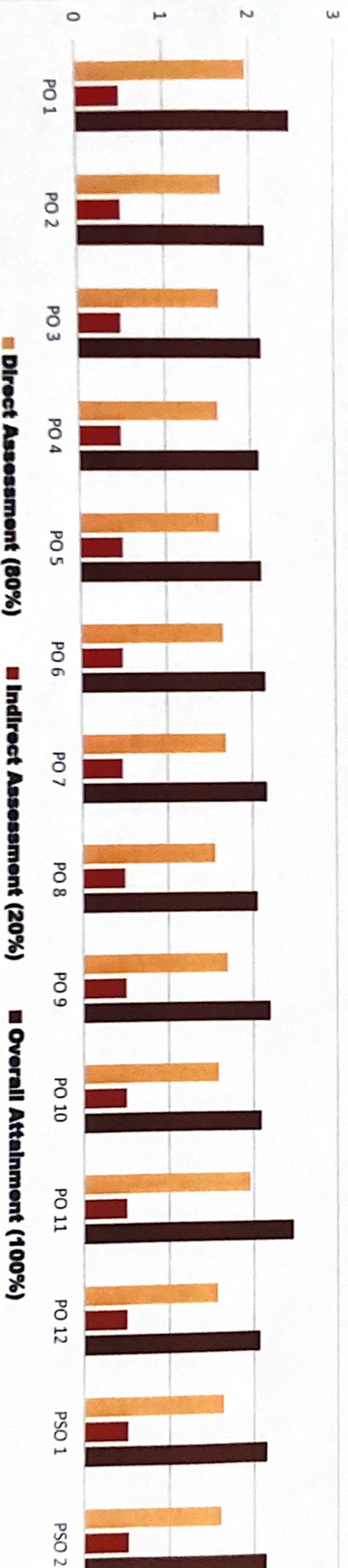


Attainment of PO and PSO – Direct and Indirect Assessment

PROGRAM OUTCOMES (Target Attainment level of each PO is 2.1)

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Direct attainment (100%)	2.46	2.09	2.06	2.02	2.03	2.09	2.11	1.95	2.13	1.98	2.45	1.96	2.05	2.02
Direct attainment (80%)	1.96	1.67	1.64	1.62	1.63	1.67	1.69	1.56	1.70	1.59	1.96	1.57	1.64	1.61
Indirect attainment (100%)	2.54	2.53	2.45	2.44	2.45	2.44	2.38	2.46	2.50	2.51	2.54	2.52	2.57	2.64
Indirect attainment (20%)	0.50	0.50	0.49	0.48	0.49	0.48	0.47	0.49	0.5	0.50	0.50	0.50	0.51	0.52
Overall attainment (100%)	2.47	2.18	2.13	2.10	2.12	2.16	2.17	2.05	2.20	2.09	2.47	2.07	2.15	2.14

PO, PSO ATTAINMENT





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CO PO MAPPING

Code	Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2
C101	16MA1101	Engineering Mathematics-I	3.0	3.0	3.0	2.0	2.0	2.2	2.0					2.0	2.0	2.0
C102	16PH1101	Engineering Physics	3.0	2.2	1.0	2.4	1.8	1.8	2.0			2.0			2.0	1.4
C103	16CY1101	Engineering Chemistry	3.0	2.0	2.0	2.0	2.0	2.4	2.2			2.4		2.0	1.0	1.0
C104	16HE1101R	Essential English for Engineers – I	1.0	1.0	1.0	1.3		1.8	1.6			3.0		2.8	1.0	
C105	16GE1103	Problem solving and python programming	3.0	2.0	2.6		2.6					2.2		1.4	2.0	1.6
C106	16GE1102	Engineering Graphics	3.0	3.0	2.0	1.0	2.4	2.2			2.0	2.0		3.0	2.6	1.6
C107	16PS1001	Physical Sciences Laboratory - I	1.8	1.0	1.8	1.8		1.8	2.2	2.0		2.4		2.4	1.4	1.4
C108	16GE1002	Engineering Practices Laboratory	1.8	1.0	1.8	1.8		1.9	2.0	2.0	1.8	2.0		2.2	1.4	1.4
C109	16GE1004	Problem solving and python programming Laboratory	3.0	2.6	3.0	2.8	2.6	2.4	2.8		2.0	2.2		2.2	2.6	2.6
C110	16MA2102	Engineering Mathematics-II	3.0	3.0	3.0	2.0	2.8							2.0	1.8	1.4
C111	16PH2102	Physics of Materials	3.0	2.4	1.8	1.8	2.9	2.0	2.0			2.2			2.0	2.2



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C112	16CY2102	Environmental Sciences	2.0	1.0	1.7			2.0	3.0	3.0		2.4		2.0	2.0	1.4
C113	16HE2102R	Essential English for Engineers - II	2.0	1.3	2.0	1.0	1.0	2.0				2.8		2.8	2.0	1.7
C114	16GE2101	Engineering Mechanics	2.4	2.4	2.6	1.8		2.4	2.6			2.2		1.3	1.7	1.7
C115	16EE2202	Basics of Electrical and Electronics	2.6	2.5	2.0	2.4	2.6	2.4	2.8			2.4		1.4	2.6	2.2
C116	16PS2001	Physical Sciences Laboratory - II	1.8	1.0	1.8	1.0		2.0	2.0	2.0	2.0	2.4		1.0	1.4	1.4
C117	16ME2001	Computer Aided Drafting Laboratory	3.0	2.6	3.0	3.0	2.6	2.8	2.0		1.8	1.7		2.6	2.6	2.6
C201	16MA3103	Fourier Analysis and Statistics	3.0	2.6	3.0	1.8	2.0	2.0						2.2	2.2	2.2
C202	16AU3201	Manufacturing Technology	3.0	1.2	1.2	2.4	2.0	2.0	2.0			2.2		2.2	2.0	3.0
C203	16AU3202	Engineering Thermodynamics	3.0	2.6	1.2	2.2	1.8		2.0			2.0		1.4	3.0	2.6
C204	16AU3203	Automotive Engines	2.6	2.4	2.0	2.4	2.6	2.4	2.4			2.0		2.4	2.2	2.8
C205	16AU3204	Strength of Materials	2.8	3.0	2.4	1.8						1.4		2.0	2.0	2.6
C206	16AU3205	Engineering Design and Drawing	3.0	2.6	3.0	2.2	1.2					3.0		2.4	3.0	1.8



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C207	16AU3001	Manufacturing Technology Laboratory	1.8	1.0	1.8	1.8		1.8	2.2	2.2	2.0	2.2		2.2	2.4	2.4
C208	16AU3002	Strength of Materials Laboratory	2.6	2.3	2.0	1.8					2.0	2.2		1.4	2.5	2.4
C209	16MA4107	Numerical Methods	3.0	2.6	3.0	1.4	1.8	1.9						2.2	2.2	2.2
C210	16AU4201	Automotive Materials and Metallurgy	2.8	1.2	1.8	1.8	2.0	1.8	2.0		2.0	2.2		1.0	2.0	2.4
C211	16AU4202	Mechanics of Machines	2.8	2.8	2.2	1.8	2.4	2.4						1.0	3.0	2.6
C212	16AU4203	Thermal and Fluid Engineering	3.0	2.6	1.6	1.8		1.8	1.8					1.4	3.0	2.6
C213	16AU4204	Automotive Chassis	2.6	2.4	1.6	1.8	1.8	2.2	2.2		1.2			2.6	2.6	2.2
C214	16AU4205	Automotive Electrical and Electronics	3.0	2.6	2.4	1.8	2.0	2.5	2.4		2.0			2.6	2.0	2.2
C215	16AU4001	Automotive Components Laboratory	2.2	1.8	1.6	1.8	2.0	2.0	2.4		2.2			2.4	2.6	2.4
C216	16AU4002	Thermal and Fluid Engineering Laboratory	3.0	3.0	3.0	2.6	1.8	2.0			2.4			1.4	2.0	2.0
C217	16AU4003	Automotive Electrical and Electronics Laboratory	3.0	3.0	1.8	2.6	2.2	2.8	2.8	2.0				3.0	2.6	2.6
C301	16AU5201	Vehicle Design and Data Characteristics	2.8	3.0	2.6	2.4	1.9	2.4			2.0			2.0	2.0	2.4



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C302	16AUS202	Automotive Transmission	3.0	2.6	2.4	2.0	2.8	2.2	2.4			2.4		1.6	2.0	3.0
C303	16AUS203	Automotive Fuels and Lubricants	2.2	2.4	1.8	2.2	2.0	2.0	2.2	2.0		2.2		1.8	2.4	2.0
C304	16AUS204	Design of Machine Elements	3.0	2.6	2.2	2.4		2.2	1.9			1.6		1.8	3.0	2.6
C305	16AUS205	Automotive Engine Components Design	3.0	3.0	3.0	1.6	2.6	2.2	1.8					2.4	2.8	2.0
C306	16AUS302	Automotive Air Conditioning	3.0	2.6	2.8	1.0	1.9	2.6	2.4			2.4		1.0	2.4	2.6
C307	16AU5001	Computer Aided Engine and Chassis Design Laboratory	3.0	2.6	3.0	2.4	2.6	2.4	2.4			2.2		2.2	2.6	2.6
C308	16AU5002	Automotive Fuels and Lubricants Laboratory	2.2	2.6	1.8	2.8	2.8	2.6	2.2			2.6		2.4	2.6	2.0
C309	16AU6201	Finite Element Analysis	2.4	2.8	2.6	2.8	1.8					1.6			2.0	2.6
C310	16AU6202	Automotive Chassis Components Design	3.0	2.8	2.4	1.0		2.2	2.2			2.0		1.6	2.2	2.4
C311	16AU6203	Vehicle Dynamics	3.0	3.0	3.0	3.0	2.0	2.8	2.8			1.6		2.2	2.6	2.6
C312	16AU6204	Two and Three Wheeler Technology	2.8	2.4	2.0	2.8	1.0	2.4	2.2			2.0		2.4	2.8	2.2
C313	16AU6303	Robotics	1.4	2.4	2.0	1.8	1.8	2.4	2.8			2.2		2.2	2.8	2.4



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Code	Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2
C314	16AU6001	Two and Three Wheelers Laboratory	3.0	3.0	3.0	3.0	2.0	2.6	2.4			2.2		2.6	2.6	2.6
C315	16AU6002	Finite Element Analysis Laboratory	3.0	3.0	3.0	3.0	2.0	2.8	2.8			1.6		2.2	2.6	2.6
C316	16AU6801	Mini Project	2.3	2.3	2.0	2.4	2.0	2.8	2.4	2.8	2.8	2.8	2.3	2.4	2.3	2.4
C401	16AU7201	Engine and Vehicle Management Systems	2.4	2.4	2.0	2.0	2.4	2.8	2.0			2.0		2.4	3.0	2.6
C402	16AU7202	Professional Ethics						1.8	2.0	3.0	2.4	2.2	2.8	1.8	1.0	1.0
C403	16AU7302	Entrepreneurship Development	2.0	1.6	2.0	2.0	1.8			2.0				2.2	1.4	1.0
C404	16AU7312	Vehicle Body Engineering	2.4	2.0	1.8	2.4	2.4	2.0				2.4		2.4	2.6	2.0
C405	16AU7001	Engine Performance and Emission Testing	3.0	2.0	3.0	2.6	1.8	2.6	2.4			1.0		2.4	2.6	2.6
C406	16AU7002	Vehicle Maintenance Laboratory	3.0	3.0	1.8	2.2		2.8	2.2	2.0				2.2	2.4	2.2
C407	16AU7701	Internship Training / Implant Training	2.8	1.8	2.4	2.6	2.0	2.8	2.6	2.8	2.4	2.8	2.0	2.6	2.4	2.4
C408	16AU8306	Unconventional Machining	3.0	2.6	2.4	1.0	2.8	2.0	2.0			2.0		2.8	3.0	2.0
C409	16AU8312	Vehicle Management Transport	2.4	2.0	1.0	2.4	1.9	2.4	2.2			1.6		2.4	2.6	2.0
C410	16AU8901	Project Work	2.6	2.3	2.7	2.0	2.0	2.8	2.8	2.5	2.8	2.8	2.8	2.8	2.7	2.7



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Attainment of POs and PSOs in 3 scale through direct assessment methods for 2018-2022 batch

Attainment of PO and PSO – Direct Assessment

Code	Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2
C101	16MA1101	Engineering Mathematics-I	3.0	3.0	3.0	2.0	2.0	2.2	2.0					2.0	2.0	2.0
C102	16PH1101	Engineering Physics	3.0	2.2	0.8	2.4	1.8	1.8	1.8			2.0			2.0	1.4
C103	16CY1101	Engineering Chemistry	3.0	2.0	2.0	1.8	2.0	2.4	2.2			2.0		2.0	1.0	1.0
C104	16HE1101R	Essential English for Engineers – I	1.0	0.4	0.1	0.8		1.8	0.8			3.0		2.8	0.6	
C105	16GE1103	Problem solving and python programming	3.0	2.0	2.6		2.6					2.0		1.2	0.8	1.6
C106	16GE1102	Engineering Graphics	3	2	2	1	2.4	2.2			2	2		2.8	0.8	1.6
C107	16PS1001	Physical Sciences Laboratory - I	1.8	1.0	1.8	1.8		1.8	1.9	1.0		2.0		2.0	1.4	1.4
C108	16GE1002	Engineering Practices Laboratory	1.8	1.0	1.8	1.8		1.9	2.0	1.0	1.6	2.0		2.2	1.4	1.4
C109	16GE1004	Problem solving and python programming	3.0	2.6	3.0	2.8	2.6	2.4	2.8		2.0	2.0		2.2	2.6	2.6
C110	16MA2102	Engineering Mathematics-II	3.0	3.0	3.0	2.0	2.8							2.0	1.8	1.4
C111	16PH2102	Physics of Materials	3.0	2.4	1.8	1.8	2.9	1.6	2.0			2.0			2.0	2.2



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C112	16CY2102	Environmental Sciences	2.0	0.6	1.0			2.0	3.0	2.0		2.0		2.0	2.0	1.4
C113	16HE2102R	Essential English for Engineers - II	1.2	0.8	0.8	0.9	0.2	0.9				2.8		2.2	1.6	1.0
C114	16GE2101	Engineering Mechanics	2.4	2.4	2.6	1.8		2.4	2.6			2.0		0.8	1.0	1.0
C115	16EE2202	Basics of Electrical and Electronics	2.6	1.0	1.6	2.4	2.4	2.4	2.8			2.0		1.4	2.6	2.2
C116	16PS2001	Physical Sciences Laboratory - II	1.8	1.0	1.8	1.0	-	1.0	1.0	2.0	1.9	2.0		1.0	1.4	1.4
C117	16ME2001	Computer Aided Drafting Laboratory	3.0	2.6	3.0	2.9	2.6	1.8	1.8			1.6		2.6	2.6	2.6
C201	16MA3103	Fourier Analysis and Statistics	1.9	1.6	1.9	1.8	1.8	1.9						1.4	1.4	1.4
C202	16AU3201	Manufacturing Technology	2.2	1.0	1.0	2.4	1.8	1.8	1.8			2.0		2.2	1.4	2.2
C203	16AU3202	Engineering Thermodynamics	1.0	0.9	0.9	1.8	1.8		1.8			2.0		0.5	1.0	0.9
C204	16AU3203	Automotive Engines	2.4	2.3	1.8	2.4	2.4	2.2	2.4			2.0		2.0	2.1	2.6
C205	16AU3204	Strength of Materials	1.3	1.4	1.8	1.8						1.2		2.0	0.9	1.2
C206	16AU3205	Engineering Design and Drawing	3.0	2.6	3.0	2.2	1.2					3.0		2.4	3.0	1.8



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C207	16AU3001	Manufacturing Technology Laboratory	1.8	1.0	1.8	1.6		1.8	1.8	1.8	1.9	2.0		2.2	2.4	2.4
C208	16AU3002	Strength of Materials Laboratory	1.8	1.0	1.8	1.8					1.8	2.0		1.3	2.4	2.4
C209	16MA4107	Numerical Methods	2.0	1.8	2.0	1.4	1.8	1.9						1.5	1.5	1.4
C210	16AU4201	Automotive Materials and Metallurgy	2.8	1.2	1.8	1.8	1.9	1.8	1.8			2.0		2.0	2.2	2.0
C211	16AU4202	Mechanics of Machines	2.8	2.8	2.2	1.8	2.4	2.4				2.0		1.0	2.0	2.4
C212	16AU4203	Thermal and Fluid Engineering	3.0	2.6	1.6	1.8		1.8	1.8			1.0		1.4	3.0	2.6
C213	16AU4204	Automotive Chassis	2.6	2.4	1.6	1.8	1.8	2.2	2.2			1.2		2.6	2.6	2.2
C214	16AU4205	Automotive Electrical and Electronics	3.0	2.6	2.4	1.8	2.0	2.5	2.4			2.0		2.6	2.0	2.2
C215	16AU4001	Automotive Components Laboratory	2.2	1.8	1.6	1.8	1.9	1.8	1.8			2.0		2.0	2.6	2.4
C216	16AU4002	Thermal and Fluid Engineering Laboratory	3.0	3.0	3.0	2.6	1.8	1.6				2.0		1.4	2.0	2.0
C217	16AU4003	Automotive Electrical and Electronics Laboratory	3.0	3.0	1.8	2.6	2.2	1.8	2.8	0.8		2.0		2.0	2.6	2.6



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Code	Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2
C301	16AUS201	Vehicle Design and Data Characteristics	2.8	3.0	2.6	2.4	1.9	2.4				2.0		2.0	2.0	2.4
C302	16AUS202	Automotive Transmission	2.2	2.0	1.7	1.9	2.8	2.2	2.4			2.0		1.6	1.5	2.2
C303	16AUS203	Automotive Fuels and Lubricants	2.1	2.2	1.8	2.2	1.8	2.0	1.0	1.0		2.0		1.6	2.2	1.9
C304	16AUS204	Design of Machine Elements	2.8	2.4	2.1	2.4		1.8	1.8			1.5		1.8	2.8	2.4
C305	16AUS205	Automotive Engine Components Design	2.8	2.8	2.8	1.5	2.4	2.1	1.7					2.3	2.6	1.9
C306	16AUS302	Automotive Air Conditioning	2.8	2.5	2.8	1.0	1.9	2.6	2.4			2.0		0.9	2.2	2.5
C307	16AU5001	Computer Aided Engine and Chassis Design Laboratory	3.0	2.6	3.0	2.4	2.6	2.4	2.2			2.0		2.2	2.6	2.6
C308	16AU5002	Automotive Fuels and Lubricants Laboratory	2.0	2.4	1.8	2.8	2.8	2.6	2.2			2.5		2.3	2.4	1.9
C309	16AU6201	Finite Element Analysis	2.4	2.8	2.6	2.6	1.8					1.6			2.0	2.6
C310	16AU6202	Automotive Chassis Components Design	3.0	2.8	2.4	1.0		2.2	2.2			2.0		1.6	2.2	2.4
C311	16AU6203	Vehicle Dynamics	3.0	3.0	3.0	3.0	2.0	2.8	2.8			1.6		2.2	2.6	2.6



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Code	Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2
C312	16AU6204	Two and Three Wheeler Technology	2.5	2.1	1.7	2.6	0.9	2.4	2.0			2.0		2.0	2.4	1.9
C313	16AU6303	Robotics	1.4	2.4	2.0	1.8	1.8	2.4	2.8			2.0		2.2	2.8	2.4
C314	16AU6001	Two and Three Wheelers Laboratory	3.0	3.0	3.0	3.0	2.0	2.6	2.4			2.0		2.0	2.6	2.6
C315	16AU6002	Finite Element Analysis Laboratory	3.0	3.0	3.0	3.0	2.0	2.8	2.8			1.6		2.2	2.6	2.6
C316	16AU6801	Mini Project	2.3	2.3	2.0	2.4	2.0	2.4	2.4	2.8	2.8	2.8	2.2	2.4	2.3	2.3
C401	16AU7201	Engine and Vehicle Management Systems	2.4	2.4	2.0	2.0	2.4	2.0	2.0			2.0		2.4	3.0	2.6
C402	16AU7202	Professional Ethics						1.8	1.8	2.8	2.4	2.2	2.8	1.6	0.7	
C403	16AU7302	Entrepreneurship Development	2.0	1.6	2.0	2.0	1.6			2.6		2.0		2.2	1.4	1.0
C404	16AU7312	Vehicle Body Engineering	2.4	2.0	1.8	2.4	2.4	1.9				2.0		2.2	2.6	2.0
C405	16AU7001	Engine Performance and Emission Testing Laboratory	3.0	2.0	3.0	2.6	1.6	2.6	2.4			1.0		2.4	2.6	2.6
C406	16AU7002	Vehicle Maintenance Laboratory	3.0	3.0	1.8	2.2		2.6	2.2	2.2				2.2	2.4	2.2
C407	16AU7701	Internship Training / Inplant Training	2.6	1.8	2.4	2.6	1.9	2.0	2.6	2.8	2.4	2.8	2.0	2.6	2.4	2.4



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C408	16AU8306	Unconventional Machining	2.2	1.9	1.7	0.8	2.0	1.4	1.4			1.4		2.0	2.2	1.4
C409	16AU8312	Vehicle Transport Management	2.2	1.9	0.9	2.2	1.9	2.4	2.2			1.5		2.2	2.4	1.9
C410	16AU8901	Project Work	2.6	2.4	2.7	2.0	2.0	2.0	2.0	2.5	2.8	2.8	2.8	2.8	2.7	2.7
Average			2.46	2.09	2.06	2.02	2.03	2.08	2.11	2.02	2.13	2.10	2.45	2.03	2.05	2.02



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Attainment of PO and PSO – Indirect Assessment

Indirect Methods	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Graduate Exit Survey	2.74	2.78	2.71	2.76	2.73	2.77	2.73	2.79	2.76	2.70	2.76	2.73	2.85	2.88
Co-Curricular activities	2.67	2.65	2.58	2.57	2.57	2.56	2.5	2.59	2.63	2.63	2.67	2.64	2.7	2.77
Extra-Curricular activities	2.49	2.46	2.385	2.355	2.37	2.34	2.28	2.37	2.43	2.46	2.49	2.46	2.49	2.58
Employer Feedback	2.49	2.46	2.38	2.35	2.37	2.34	2.28	2.37	2.43	2.46	2.49	2.46	2.49	2.58
Alumni Feedback	2.41	2.4	2.33	2.32	2.33	2.31	2.26	2.34	2.38	2.38	2.42	2.39	2.44	2.51
Parent Feedback	2.44	2.41	2.34	2.31	2.32	2.29	2.23	2.32	2.38	2.41	2.44	2.41	2.44	2.53
AVERAGE	2.54	2.53	2.45	2.44	2.45	2.44	2.38	2.46	2.50	2.51	2.54	2.52	2.57	2.64