



# HERITAGE INSTITUTE OF TECHNOLOGY

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**RESULTS OF FINAL YEAR B. TECH, M. TECH & MCA & 3<sup>rd</sup> Year B. TECH, 1<sup>st</sup>  
Year M. TECH & MCA EXAMINATIONS, 2021-22**

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*Placed for*

Approval of  
Board of Examinations & Academic Council of HITK  
07.08.2022

# Result Analysis, Even Sem-2022

## 4<sup>th</sup> Year, B.Tech

<b>COMPUTER SCIENCE &amp; ENGINEERING (THEORY)</b>							
<b>NO. OF STUDENTS = 215</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA/FC (&lt;40)</b>
CSEN 4232 / 4233/ 4237 : Mobile Computing / Pattern Recognition / Web Development with Node and Express	12	50	55	41	40	13	4
(%)	5.58	23.26	25.58	19.07	18.60	6.05	1.86
CSEN 4241 / 4242 : Distributed Databases / Natural Language Processing	3	46	60	59	25	22	0
(%)	1.40	21.40	27.91	27.44	11.63	10.23	0.00
AEIE 4222 / BIOT 4221 / BIOT 4222 / BIOT4223/ CHEN4222/ ECEN 4223/ HMTS 4222 : Medical Instrumentation / Computational Biology / Non- conventional Energy / Biology for Engineers / Introduction to Solar and Wind Technology / Optical Fiber Communication / Introduction to French Language	39	46	55	40	24	10	1
(%)	18.14	21.40	25.58	18.60	11.16	4.65	0.47
HMTS 4011 : Disaster Response Services and Technologies* (* only for Lateral Entry Students)	0	0	0	6	8	6	0
(%)	0.00	0.00	0.00	30.00	40.00	30.00	0.00

<b>COMPUTER SCIENCE &amp; ENGINEERING (LAB)</b>							
<b>NO. OF STUDENTS = 215</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA/FC (&lt;40)</b>
CSEN 4295 : Project II	43	114	40	17	0	0	1(FA)
(%)	20.00	53.02	18.60	7.91	0.00	0.00	0.47
CSEN 4297 : Comprehensive Viva-Voce	36	48	56	46	27	1	1
(%)	16.74	22.33	26.05	21.40	12.56	0.47	0.47

<b>INFORMATION TECHNOLOGY (THEORY)</b>							
<b>NO. OF STUDENTS = 63</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA/FC (&lt;40)</b>
INFO 4232 : Internet Technology	5	10	17	16	10	4	1
(%)	7.94	15.87	26.98	25.40	15.87	6.35	1.59
INFO 4242 : Cloud Computing	2	2	8	29	18	3	1
(%)	3.17	3.17	12.70	46.03	28.57	4.76	1.59
ECEN 4222 / ECEN 4223 / HMTS 4222 : Cellular and Mobile Communication / Optical Fiber Communication / Introduction to French Language	2	11	18	14	10	7	1
(%)	3.17	17.46	28.57	22.22	15.87	11.11	1.59
HMTS 4011 : Disaster Response Services and Technologies* (* only for Lateral Entry Students)	0	0	0	2	2	2	0
(%)	0.00	0.00	0.00	33.33	33.33	33.33	0.00

<b>INFORMATION TECHNOLOGY (LAB)</b>							
<b>NO. OF STUDENTS = 63</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA/FC (&lt;40)</b>
INFFO 4295 : Project II	24	22	13	3	0	0	1(FA)
(%)	38.10	34.92	20.63	4.76	0.00	0.00	1.59
INFO 4297 : Comprehensive Viva-Voce	15	21	12	14	1	0	0
(%)	23.81	33.33	19.05	22.22	1.59	0.00	0.00

<b>ELECTRONICS &amp; COMMUNICATION ENGINEERING (THEORY)</b>							
<b>NO. OF STUDENTS = 187</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA/FC (&lt;40)</b>
ECEN 4242 / 4243 / 4244 / 4245 : Satellite Communication & Remote Sensing / Digital Beam Forming Techniques / Nanoelectronics & Nanophotonics / Cognitive Radio-Deployment Strategy & Applications	11	42	59	48	23	2	2
(%)	5.88	22.46	31.55	25.67	12.30	1.07	1.07
ECEN 4246 / 4247 / 4248 : Wireless Sensor Networks / Mobile Communication - 3G and Above / Machine Intelligence and Introduction to Python	9	49	61	48	16	4	0
(%)	4.81	26.20	32.62	25.67	8.56	2.14	0.00
BIOT 4222 / BIOT 4223/ ECEN 4221/ ELEC 4221/ INFO 4221/ HMTS 4222 : Non-conventional Energy / Biology for Engineers / Low Power High Performance Digital VLSI Circuit Design / Applied Illumination Engineering / Fundamentals of Cryptography / Introduction to French Language	31	38	43	45	19	10	1
(%)	16.58	20.32	22.99	24.06	10.16	5.35	0.53
HMTS 4011 Disaster Response Services and Technologies>(* only for Lateral Entry Students)	0	0	1	8	2	2	0
(%)	0.00	0.00	7.69	61.54	15.38	15.38	0.00

<b>ELECTRONICS &amp; COMMUNICATION ENGINEERING (LAB)</b>							
<b>NO. OF STUDENTS = 187</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA/FC (&lt;40)</b>
ECEN 4295 : Project Work II & Dissertation	72	62	35	18	0	0	0
(%)	38.50	33.16	18.72	9.63	0.00	0.00	0.00
ECEN 4297 : Comprehensive Viva-Voce	65	70	40	12	0	0	0
(%)	34.76	37.43	21.39	6.42	0.00	0.00	0.00

<b>BIOTECHNOLOGY (THEORY)</b>							
<b>NO. OF STUDENTS = 58</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA/FC (&lt;40)</b>
BIOT 4231 : Bioethics & IPR	26	20	7	3	2	0	0
(%)	44.83	34.48	12.07	5.17	3.45	0.00	0.00
BIOT 4241 / 4242 : Renewable Energy Technology / Tissue Engineering	11	25	13	3	4	2	0
(%)	18.97	43.10	22.41	5.17	6.90	3.45	0.00
AEIE 4222 / CHEN 4221 / CHEN 4222 : Medical Instrumentation / Fuel Cell Technology / Introduction to Solar and Wind Technology	21	25	8	3	1	0	0
(%)	36.21	43.10	13.79	5.17	1.72	0.00	0.00
HMTS 4011 : Disaster Response Services and Technologies*(* only for Lateral Entry Students)	No Student						

<b>BIOTECHNOLOGY (LAB)</b>							
<b>NO. OF STUDENTS = 58</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA/FC (&lt;40)</b>
BIOT 4295 Project II	38	18	2	0	0	0	0
(%)	65.52	31.03	3.45	0.00	0.00	0.00	0.00
BIOT 4297 Comprehensive Viva-Voce	12	22	19	5	0	0	0
(%)	20.69	37.93	32.76	8.62	0.00	0.00	0.00

<b>APPLIED ELECTRONICS &amp; INSTRUMENTATION ENGINEERING (THEORY)</b>							
<b>NO. OF STUDENTS = 60</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA/FC (&lt;40)</b>
AEIE 4231 / AEIE 4232 : Power Plant Instrumentation / Digital Control Techniques	8	17	20	8	5	1	1
(%)	13.33	28.33	33.33	13.33	8.33	1.67	1.67
AEIE 4241 / 4242 : Biomedical Instrumentation / Digital Image Processing	1	9	15	17	9	8	1
(%)	1.67	15.00	25.00	28.33	15.00	13.33	1.67
BIOT 4223 / INFO 4221 : Biology for Engineers / Fundamentals of Cryptography	7	9	17	16	8	2	1
(%)	11.67	15.00	28.33	26.67	13.33	3.33	1.67
HMTS 4011 : Disaster Response Services and Technologies* (* only for Lateral Entry Students)	0	0	0	0	7	2	0
(%)	0.00	0.00	0.00	0.00	77.78	22.22	0.00

<b>APPLIED ELECTRONICS &amp; INSTRUMENTATION ENGINEERING (LAB)</b>							
<b>NO. OF STUDENTS = 60</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA/FC (&lt;40)</b>
AEIE 4295 : Project II	42	13	5	0	0	0	0
(%)	70.00	21.67	8.33	0.00	0.00	0.00	0.00
AEIE 4297 : Comprehensive Viva-Voce	17	27	16	0	0	0	0
(%)	28.33	45.00	26.67	0.00	0.00	0.00	0.00

<b>CHEMICAL ENGINEERING (THEORY)</b>							
<b>NO. OF STUDENTS = 64</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA/FC (&lt;40)</b>
CHEN 4231 / 4232 : Project Engineering / Process Integration	22	18	11	7	3	1	2
(%)	34.38	28.13	17.19	10.94	4.69	1.56	3.13
BIOT 4221 / ELEC 4221 / MECH 4222 Computational Biology / Applied Illumination Engineering / Modern Manufacturing Technology	8	18	20	9	5	1	3
(%)	12.50	28.13	31.25	14.06	7.81	1.56	4.69
HMTS 4011 Disaster Response Services and Technologies*(* only for Lateral Entry Students)	0	0	4	2	5	0	2
(%)	0.00	0.00	30.77	15.38	38.46	0.00	15.38

<b>CHEMICAL ENGINEERING (LAB)</b>							
<b>NO. OF STUDENTS = 64</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA/FC (&lt;40)</b>
CHEN 4251 : Design & Simulation Lab II	21	21	10	7	4	0	1
(%)	32.81	32.81	15.63	10.94	6.25	0.00	1.56
CHEN 4295 : Project II	18	26	12	7	1	0	0
(%)	28.13	40.63	18.75	10.94	1.56	0.00	0.00
CHEN 4297 : Comprehensive Viva-Voce	4	13	18	27	1	0	1
(%)	6.25	20.31	28.13	42.19	1.56	0.00	1.56

<b>MECHANICAL ENGINEERING (THEORY)</b>							
<b>NO. OF STUDENTS = 120</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA/FC (&lt;40)</b>
MECH 4241 / 4242 / 4243 : Quality Production Method / Power Plant Engineering / Gas Dynamics and Jet Propulsion	3	12	25	34	27	18	1
(%)	2.50	10.00	20.83	28.33	22.50	15.00	0.83
CIVL 4221 / HMTS 4221 : Building Materials / Introduction to Industrial Sociology	17	43	40	15	4	1	0
(%)	14.17	35.83	33.33	12.50	3.33	0.83	0.00
HMTS 4011 : Disaster Response Services and Technologies* (* only for Lateral Entry Students)	0	2	4	7	3	0	0
(%)	0.00	12.50	25.00	43.75	18.75	0.00	0.00

<b>MECHANICAL ENGINEERING (LAB)</b>							
<b>NO. OF STUDENTS = 120</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA/FC (&lt;40)</b>
MECH 4251 : Advanced Manufacturing Lab	5	20	25	31	23	15	1
(%)	4.17	16.67	20.83	25.83	19.17	12.50	0.83
MECH 4256 : Design of an Industrial Product	19	35	38	21	5	2	0
(%)	15.83	29.17	31.67	17.50	4.17	1.67	0.00
MECH 4295 : Project II	40	47	22	8	3	0	0
(%)	33.33	39.17	18.33	6.67	2.50	0.00	0.00
MECH 4297 : Comprehensive Viva-Voce	13	19	46	35	6	1	0
(%)	10.83	15.83	38.33	29.17	5.00	0.83	0.00



<b>CIVIL ENGINEERING (THEORY)</b>							
<b>NO. OF STUDENTS = 126</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA/FC (&lt;40)</b>
CIVL 4241 : Hydraulic Structures	2	22	44	31	23	4	0
(%)	1.59	17.46	34.92	24.60	18.25	3.17	0.00
BIOT 4222 / CHEN 4222 / MECH 4221 / MECH 4222 : Non-conventional Energy / Introduction to Solar and Wind Technology / Quantitative Decision Making / Modern Manufacturing Technology	4	26	29	30	26	10	1
(%)	3.17	20.63	23.02	23.81	20.63	7.94	0.79
HMTS 4011 Disaster Response Services and Technologies*(* only for Lateral Entry Students)	0	6	9	6	4	0	0
(%)	0.00	24.00	36.00	24.00	16.00	0.00	0.00

<b>CIVIL ENGINEERING (LAB)</b>							
<b>NO. OF STUDENTS = 126</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA/FC (&lt;40)</b>
CIVL 4295 : Project II	39	29	28	22	5	3	0
(%)	30.95	23.02	22.22	17.46	3.97	2.38	0.00
CIVL 4297 : Comprehensive Viva-Voce	33	40	25	20	6	2	0
(%)	26.19	31.75	19.84	15.87	4.76	1.59	0.00

<b>ELECTRICAL ENGINEERING (THEORY)</b>							
<b>NO. OF STUDENTS = 64</b>							
Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F/FA/FC (<40)
ELEC 4231 : High Voltage Engineering	9	22	22	5	4	1	1
(%)	14.06	34.38	34.38	7.81	6.25	1.56	1.56
ELEC 4241 : Electronic Instrumentation	4	17	29	6	6	1	1
(%)	6.25	26.56	45.31	9.38	9.38	1.56	1.56
AEIE 4222 / BIOT 4222 / CHEN 4222 : Medical Instrumentation / Non-conventional Energy / Introduction to Solar and Wind Technology	9	13	21	17	3	0	1
(%)	14.06	20.31	32.81	26.56	4.69	0.00	1.56
HMTS 4011 : Disaster Response Services and Technologies* (* only for Lateral Entry Students)	0	0	1	2	3	1	0
(%)	0.00	0.00	14.29	28.57	42.86	14.29	0.00

<b>ELECTRICAL ENGINEERING (LAB)</b>							
<b>NO. OF STUDENTS = 64</b>							
Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F/FA/FC (<40)
ELEC 4295 : Project Stage II	10	13	30	10	0	0	1
(%)	15.63	20.31	46.88	15.63	0.00	0.00	1.56
ELEC 4297 : Comprehensive Viva-Voce	9	43	9	2	0	0	1
(%)	14.06	67.19	14.06	3.13	0.00	0.00	1.56

## Result Analysis, Even Sem-2022

### 3rd Year, B.Tech

<b>Computer Science &amp; Engineering (Theory)</b>							
<b>No. of students = 215</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA (&lt;40)</b>
HMTS 3201: Economics for Engineers	8	33	48	62	44	20	0
(%)	3.72	15.35	22.33	28.84	20.47	9.30	0.00
INCO 3016: Indian Constitution and Civil Society ( <b>ZERO CREDIT</b> )	0	6	94	109	6	0	0
(%)	0.00	2.79	43.72	50.70	2.79	0.00	0.00
CSEN 3201: Software Engineering	84	59	42	22	5	3	0
(%)	39.07	27.44	19.53	10.23	2.33	1.40	0.00
CSEN 3202: Computer Networks	24	46	58	40	33	12	2
(%)	11.16	21.40	26.98	18.60	15.35	5.58	0.93
CSEN 3232/CSEN 3233/CSEN 3235: Enterprise Application in Java EE/ Machine Learning / Cloud Computing	23	58	54	43	27	8	2
(%)	10.70	26.98	25.12	20.00	12.56	3.72	0.93
AEIE 3221 / CHEN 3221 / ECEN 3221/ ECEN 3222/ MATH 3221: Fundamentals of Sensors and Transducers / Water and Liquid Waste Management / Artificial Intelligence in Radio Communication / Designing with Processors and Controllers / Computational Mathematics	5	24	68	64	40	14	0
(%)	2.33	11.16	31.63	29.77	18.60	6.51	0.00

<b>Computer Science &amp; Engineering (Lab &amp; Sessional)</b>							
<b>No. of students = 215</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA (&lt;40)</b>
CSEN3251 : Software Engineering Lab	69	75	44	17	8	2	0
(%)	32.09	34.88	20.47	7.91	3.72	0.93	0.00
CSEN3252: Computer Networks Lab	78	63	32	27	14	1	0
(%)	36.28	29.30	14.88	12.56	6.51	0.47	0.00
CSEN3293: Term Paper and Seminar	42	74	75	18	6	0	0
(%)	19.53	34.42	34.88	8.37	2.79	0.00	0.00

<b>Information Technology (Theory)</b>							
<b>No. of students = 69</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA (&lt;40)</b>
HMTS 3201: Economics for Engineers	0	8	16	22	16	6	1
(%)	0.00	11.59	23.19	31.88	23.19	8.70	1.45
INFO 3201: Computer Networks	0	6	8	19	24	9	3
(%)	0.00	8.70	11.59	27.54	34.78	13.04	4.35
INFO 3202: Data Analytics	3	15	17	17	8	8	1
(%)	4.35	21.74	24.64	24.64	11.59	11.59	1.45
INFO 3211: Digital Image Processing	5	17	16	22	3	3	3
(%)	7.25	24.64	23.19	31.88	4.35	4.35	4.35
INFO 3232/ INFO 3233: E-Commerce & ERP/ Cryptography & Network Security	0	3	9	31	22	4	0
(%)	0.00	4.35	13.04	44.93	31.88	5.80	0.00
ECEN 3222/ELEC 3221/MATH 3222: Designing with Processors and Controllers/Fundamentals of Circuit Theory/Advanced Probability and Information Theory	2	6	12	25	15	6	3
(%)	2.90	8.70	17.39	36.23	21.74	8.70	4.35

<b>Information Technology (Lab &amp; Sessional)</b>							
<b>No. of students = 69</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA (&lt;40)</b>
INFO3251 : Computer Networks Lab	13	11	21	8	5	7	4
(%)	18.84	15.94	30.43	11.59	7.25	10.14	5.80
INFO 3252: Data Analytics Lab	34	14	12	6	3	0	0
(%)	49.28	20.29	17.39	8.70	4.35	0.00	0.00
INFO 3261: Digital Image Processing Lab	20	15	15	10	1	6	2
(%)	28.99	21.74	21.74	14.49	1.45	8.70	2.90
INFO 3293: Term paper and Seminar	6	15	21	15	8	4	0
(%)	8.70	21.74	30.43	21.74	11.59	5.80	0.00

<b>Electronics &amp; Communication Engineering (Theory)</b>							
<b>No. of students = 209</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA (&lt;40)</b>
HMTS 3201: Economics for Engineers	4	26	58	59	48	13	1
(%)	1.91	12.44	27.75	28.23	22.97	6.22	0.48
INCO 3016: Indian Constitution and Civil Society	2	42	102	55	8	0	0
(%)	0.96	20.10	48.80	26.32	3.83	0.00	0.00
CSEN 3208: Object Oriented Programming Concept by using C++	18	35	46	33	27	41	9
(%)	8.61	16.75	22.01	15.79	12.92	19.62	4.31
ECEN 3201: Digital VLSI Design	14	34	38	38	43	34	8
(%)	6.70	16.27	18.18	18.18	20.57	16.27	3.83
ECEN 3211: Wireless and Cellular Communication	10	40	44	57	36	19	3
(%)	4.78	19.14	21.05	27.27	17.22	9.09	1.44
ECEN 3231/ECEN 3232/ECEN 3234: Digital Image Processing & Pattern Recognition/IoT for Communication / Network Security	21	35	58	58	21	9	7
(%)	10.05	16.75	27.75	27.75	10.05	4.31	3.35
AEIE 3221 / CSEN 3221 / ECEN 3221 / MATH 3222: Fundamentals of Sensors and Transducers / Fundamentals of RDBMS / Artificial Intelligence in Radio Communication / Advanced Probability and Information Theory	10	52	43	48	34	20	2
(%)	4.78	24.88	20.57	22.97	16.27	9.57	0.96

<b>Electronics &amp; Communication Engineering (Lab &amp; Sessional)</b>							
<b>No. of students = 209</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA (&lt;40)</b>
ECEN 3251 : Digital VLSI Design Lab	96	64	43	4	0	0	4
(%)	45.50	30.33	20.38	1.90	0.00	0.00	1.90
CSEN 3258: Object Oriented Programming Concept by using C++ Lab	45	54	75	16	18	1	2
(%)	21.33	25.59	35.55	7.58	8.53	0.47	0.95
ECEN 3261: Wireless and Cellular Communication Lab	38	119	45	3	4	0	2
(%)	18.01	56.40	21.33	1.42	1.90	0.00	0.95
ECEN 3252: Mini Project / Electronic Design workshop	61	95	44	7	4	0	0
(%)	28.91	45.02	20.85	3.32	1.90	0.00	0.00
ECEN 3293: Term Paper with Seminar	119	69	17	6	0	0	0
(%)	56.40	32.70	8.06	2.84	0.00	0.00	0.00

<b>Biotechnology (Theory)</b>							
<b>No. of students = 59</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA (&lt;40)</b>
HMTS 3201: Economics for Engineers	7	12	17	11	5	6	1
(%)	11.86	20.34	28.81	18.64	8.47	10.17	1.69
CSEN 3207: RDBMS Concept and Computer Networking	10	15	20	7	4	3	0
(%)	16.95	25.42	33.90	11.86	6.78	5.08	0.00
BIOT 3201: Immunology	17	13	10	11	6	1	1
(%)	28.81	22.03	16.95	18.64	10.17	1.69	1.69
BIOT 3202: Bioreactor Design and Analysis	4	7	12	9	9	12	6
(%)	6.78	11.86	20.34	15.25	15.25	20.34	10.17
BIOT 3211: Plant Biotechnology	12	16	16	6	4	5	0
(%)	20.34	27.12	27.12	10.17	6.78	8.47	0.00
BIOT 3231/BIOT 3232: Molecular Modelling and Drug Designing/Biophysics of Macromolecules	3	13	13	10	13	5	2
(%)	5.08	22.03	22.03	16.95	22.03	8.47	3.39
BIOT 3221: Medical and Pharmaceutical Biotechnology	4	12	17	13	7	6	0
(%)	6.78	20.34	28.81	22.03	11.86	10.17	0.00

<b>Biotechnology (Lab &amp; Sessional)</b>							
<b>No. of students = 59</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA (&lt;40)</b>
BIOT 3251: Immunology Lab	34	23	2	0	0	0	0
(%)	57.63	38.98	3.39	0.00	0.00	0.00	0.00
BIOT 3252: Bioreactor Design Lab	33	16	6	1	1	2	0
(%)	55.93	27.12	10.17	1.69	1.69	3.39	0.00
CSEN 3257: RDBMS Concept Lab	36	18	0	4	1	0	0
(%)	61.02	30.51	0.00	6.78	1.69	0.00	0.00
BIOT 3261: Plant Tissue Culture Lab	41	12	5	0	0	1	0
(%)	69.49	20.34	8.47	0.00	0.00	1.69	0.00
BIOT 3293: Term paper & Seminar	47	8	1	1	1	1	0
(%)	79.66	13.56	1.69	1.69	1.69	1.69	0.00

<b>Applied Electronics &amp; Instrumentation Engineering (Theory)</b>							
<b>No. of students = 52</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA (&lt;40)</b>
HMTS 3201: Economics for Engineers	0	8	13	16	11	4	0
(%)	0.00	15.38	25.00	30.77	21.15	7.69	0.00
INCO 3016: Indian Constitution and Civil Society	0	2	23	19	4	0	0
(%)	0.00	3.85	44.23	36.54	7.69	0.00	0.00
CSEN 3206: Basics of RDBMS	5	10	16	11	6	4	0
(%)	9.62	19.23	30.77	21.15	11.54	7.69	0.00
AEIE 3201: Introduction to Internet of Things	0	15	27	10	0	0	0
(%)	0.00	28.85	51.92	19.23	0.00	0.00	0.00
AEIE 3231/AEIE 3232: Embedded Systems/Opto Electronics and Fibre Optics	19	22	6	4	1	0	0
(%)	36.54	42.31	11.54	7.69	1.92	0.00	0.00
CHEN 3221/ECEN 3222/INFO 3221/MATH 3222: Water and Liquid Waste Management/Designing with Processors and Controllers/Introduction to E-Commerce/ Advanced Probability and Information Theory	4	13	13	17	4	1	0
(%)	7.69	25.00	25.00	32.69	7.69	1.92	0.00

<b>Applied Electronics &amp; Instrumentation Engineering (Lab &amp; Sessional)</b>							
<b>No. of students = 52</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA (&lt;40)</b>
CSEN 3256: Basics of RDBMS Lab	9	16	21	6	0	0	0
(%)	17.31	30.77	40.38	11.54	0.00	0.00	0.00
AEIE 3251: Internet of Things Lab	35	14	3	0	0	0	0
(%)	67.31	26.92	5.77	0.00	0.00	0.00	0.00
AEIE 3295: Mini Project / Electronic Design workshop	9	39	2	2	0	0	0
(%)	17.31	75.00	3.85	3.85	0.00	0.00	0.00
AEIE 3293: Term Paper with Seminar	9	28	10	5	0	0	0
(%)	17.31	53.85	19.23	9.62	0.00	0.00	0.00

<b>Chemical Engineering (Theory)</b>							
<b>No. of students = 51</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA (&lt;40)</b>
HMTS 3201: Economics for Engineers	6	6	12	10	7	7	3
(%)	11.76	11.76	23.53	19.61	13.73	13.73	5.88
INCO 3016: Indian Constitution and Civil Society	0	4	27	14	5	0	1
(%)	0.00	7.84	52.94	27.45	9.80	0.00	1.96
CHEN 3201: Process Control and Instrumentation	5	5	7	11	11	9	3
(%)	9.80	9.80	13.73	21.57	21.57	17.65	5.88
CHEN 3202: Mass Transfer II	2	4	4	6	11	19	5
(%)	3.92	7.84	7.84	11.76	21.57	37.25	9.80
CHEN 3231/CHEN 3232/CHEN 3233: Computational Fluid Dynamics/Novel Separation Process/ Nanotechnology	7	2	6	6	17	10	3
(%)	13.73	3.92	11.76	11.76	33.33	19.61	5.88
AEIE 3222/INFO 3221: Fundamentals of Electronic Measurements/Introduction to E-Commerce	7	6	7	8	15	6	2
(%)	13.73	11.76	13.73	15.69	29.41	11.76	3.92

<b>Chemical Engineering (Lab &amp; Sessional)</b>							
<b>No. of students = 51</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA (&lt;40)</b>
CHEN 3251: Process Control Lab	18	26	7	0	0	0	0
(%)	35.29	50.98	13.73	0.00	0.00	0.00	0.00
CHEN 3252: Mass Transfer Lab	10	31	9	0	0	0	1
(%)	19.61	60.78	17.65	0.00	0.00	0.00	1.96
CHEN 3253: Process Equipment Design & Drawing Lab	10	17	14	7	2	1	0
(%)	19.61	33.33	27.45	13.73	3.92	1.96	0.00
CHEN 3293: Term Paper with Seminar	2	25	16	7	0	0	1
(%)	3.92	49.02	31.37	13.73	0.00	0.00	1.96



<b>Mechanical Engineering (Theory)</b>							
<b>No. of students = 120</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA (&lt;40)</b>
HMTS 3201: Economics for Engineers	4	14	30	32	30	6	4
(%)	3.33	11.67	25.00	26.67	25.00	5.00	3.33
MECH 3201: Machine Design-II	11	9	22	33	22	14	9
(%)	9.17	7.50	18.33	27.50	18.33	11.67	7.50
MECH 3211: IC Engine	12	17	28	33	19	8	3
(%)	10.00	14.17	23.33	27.50	15.83	6.67	2.50
MECH 3231/MECH 3232/MECH 3233: Finite Element Method/ Mechatronics & Control systems/Advanced Fluid Mechanics	5	12	19	34	32	12	6
(%)	4.17	10.00	15.83	28.33	26.67	10.00	5.00
MECH 3236/ MECH 3237/MECH 3238/MECH 3239: Total Quality Management/Turbo Machinery/ Aerodynamics/Tool Engineering	10	17	23	32	26	9	3
(%)	8.33	14.17	19.17	26.67	21.67	7.50	2.50
MECH 3221/MECH 3222/MECH 3223/MECH 3224: Computational Fluid Dynamics/ Advanced Welding Technology/New Product Development/Industrial Engineering	26	35	26	17	7	5	4
(%)	21.67	29.17	21.67	14.17	5.83	4.17	3.33

<b>Mechanical Engineering (Lab &amp; Sessional)</b>							
<b>No. of students = 120</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA (&lt;40)</b>
MECH 3256: Machining & Machine Tools Lab	22	31	42	16	8	1	2
(%)	18.03	25.41	34.43	13.11	6.56	0.82	1.64
MECH 3261: IC Engine lab	22	31	42	16	8	1	2
(%)	18.03	25.41	34.43	13.11	6.56	0.82	1.64
MECH 3281/MECH 3282/MECH 3283: Finite Element Method Lab/ Mechatronics & Control systems Lab/ Advanced Fluid Mechanics Lab	30	46	20	12	5	6	3
(%)	24.59	37.70	16.39	9.84	4.10	4.92	2.46
MECH 3293: Seminar & Term Thesis	34	54	23	7	1	0	3
(%)	27.87	44.26	18.85	5.74	0.82	0.00	2.46

<b>Civil Engineering (Theory)</b>							
<b>No. of students = 126</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA (&lt;40)</b>
HMTS 3201: Economics for Engineers	12	21	36	30	18	8	1
(%)	9.52	16.67	28.57	23.81	14.29	6.35	0.79
CIVL 3201: Design of Steel Structures	33	22	19	19	13	16	4
(%)	26.19	17.46	15.08	15.08	10.32	12.70	3.17
CIVL 3214: Project Planning and Management	32	44	29	12	5	2	2
(%)	25.40	34.92	23.02	9.52	3.97	1.59	1.59
CIVL 3241: Air and Noise Pollutions	34	27	29	16	10	8	2
(%)	26.98	21.43	23.02	12.70	7.94	6.35	1.59
CIVL 3221: Repair & Rehabilitation of Structures	30	21	29	21	15	8	2
(%)	23.81	16.67	23.02	16.67	11.90	6.35	1.59

<b>Civil Engineering (Lab &amp; Sessional)</b>							
<b>No. of students = 126</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA (&lt;40)</b>
CIVL 3251: Industrial Structure Design and Detailing Lab	15	42	42	16	5	4	3
(%)	11.81	33.07	33.07	12.60	3.94	3.15	2.36
CIVL 3252: Computer-aided Structural Analysis and Design	19	35	32	28	6	3	4
(%)	14.96	27.56	25.20	22.05	4.72	2.36	3.15
CIVL 3293: Term Paper and Seminar	42	65	18	0	0	1	1
(%)	33.07	51.18	14.17	0.00	0.00	0.79	0.79

<b>Electrical Engineering (Theory)</b>							
<b>No. of students = 58</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA (&lt;40)</b>
HMTS 3201: Economics for Engineers	1	7	8	15	19	7	1
(%)	1.72	12.07	13.79	25.86	32.76	12.07	1.72
ELEC 3201 : Power System - II	7	18	12	9	10	2	0
(%)	12.07	31.03	20.69	15.52	17.24	3.45	0.00
ELEC 3202: Microprocessor & Microcontroller	6	10	10	14	12	6	0
(%)	10.34	17.24	17.24	24.14	20.69	10.34	0.00
ELEC 3211: Electric Drives	2	4	18	19	11	4	0
(%)	3.45	6.90	31.03	32.76	18.97	6.90	0.00
ELEC 3241: Illumination Engineering	6	11	16	13	9	3	0
(%)	10.34	18.97	27.59	22.41	15.52	5.17	0.00
CSEN 3221/ECEN 3223: Fundamentals of RDBMS /Analog and Digital Communication	2	10	21	16	7	2	0
(%)	3.45	17.24	36.21	27.59	12.07	3.45	0.00

<b>Electrical Engineering (Lab &amp; Sessional)</b>							
<b>No. of students = 58</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA (&lt;40)</b>
ELEC 3251: Power System - II Lab	13	20	15	8	2	0	0
(%)	22.41	34.48	25.86	13.79	3.45	0.00	0.00
ELEC 3252: Microprocessor & Microcontroller Lab	7	14	14	16	5	2	0
(%)	12.07	24.14	24.14	27.59	8.62	3.45	0.00
ELEC 3260: Electrical Machine Design	0	8	38	11	1	0	0
(%)	0.00	13.79	65.52	18.97	1.72	0.00	0.00
ELEC 3261: Electric Drives Lab	4	23	22	5	1	3	0
(%)	6.90	39.66	37.93	8.62	1.72	5.17	0.00
ELEC 3293: Term Paper and Seminar	10	23	24	1	0	0	0
(%)	17.24	39.66	41.38	1.72	0.00	0.00	0.00

# Result Analysis, Even Sem-2022

## 1<sup>st</sup> Year, M.Tech

### COMPUTER SCIENCE & ENGINEERING

(Theory Papers)

	O (>89)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
<b>CSEN 5201 (Advanced Algorithms)</b>	0	0	1	1	1	0	0
% age	0.00	0.00	33.33	33.33	33.33	0.00	0.00
<b>CSEN 5202 (Soft Computing)</b>	0	1	2	0	0	0	0
% age	0.00	33.33	66.67	0.00	0.00	0.00	0.00
<b>CSEN 5231 (Data Preprocessing and Analysis)</b>	0	1	2	0	0	0	0
% age	0.00	33.33	66.67	0.00	0.00	0.00	0.00
<b>CSEN 5233 (Computer Vision)</b>	0	1	0	1	1	0	0
% age	0.00	33.33	0.00	33.33	33.33	0.00	0.00
<b>CSEN 5243 (Cloud Computing)</b>	0	2	1	0	0	0	0
% age	0.00	66.67	33.33	0.00	0.00	0.00	0.00

(Lab Papers)

	O (>89)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
<b>CSEN 5251 (Advanced Algorithms Lab)</b>	0	1	1	1	0	0	0
% age	0.00	33.33	33.33	33.33	0.00	0.00	0.00
<b>CSEN 5252 (Soft Computing Lab)</b>	0	1	2	0	0	0	0
% age	0.00	33.33	66.67	0.00	0.00	0.00	0.00
<b>CSEN 5293 (Term Paper and Seminar)</b>	0	3	0	0	0	0	0
% age	0.00	100.00	0.00	0.00	0.00	0.00	0.00

## ELECTRONICS & COMMUNICATION ENGINEERING

### (Theory Papers)

	O (>89)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
<b>ECEN 5201 (Advanced Digital Communication Techniques)</b>	0	1	1	1	0	0	0
<b>% age</b>	0.00	33.33	33.33	33.33	0.00	0.00	0.00
<b>ECEN 5202 (Advanced DSP and Applications)</b>	0	1	1	1	0	0	0
<b>% age</b>	0.00	33.33	33.33	33.33	0.00	0.00	0.00
<b>ECEN 5231 (Telecommunication Systems and Engineering)</b>	0	1	1	0	1	0	0
<b>% age</b>	0.00	33.33	33.33	0.00	33.33	0.00	0.00
<b>ECEN 5241 (Cognitive Radios &amp; Networks)</b>	0	1	1	0	1	0	0
<b>% age</b>	0.00	33.33	33.33	0.00	33.33	0.00	0.00
<b>ECEN 5242 (Microwave Measurement &amp; Instrumentation)</b>	0	0	1	1	1	0	0
<b>% age</b>	0.00	0.00	33.33	33.33	33.33	0.00	0.00

### (Lab Papers)

	O (>89)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
<b>ECEN 5252 (Advanced DSP and Applications Lab)</b>	1	2	0	0	0	0	0
<b>% age</b>	33.33	66.67	0.00	0.00	0.00	0.00	0.00
<b>ECEN 5253 (Design &amp; Simulation Lab)</b>	1	2	0	0	0	0	0
<b>% age</b>	33.33	66.67	0.00	0.00	0.00	0.00	0.00
<b>ECEN 5293 (Term Paper and Seminar)</b>	2	1	0	0	0	0	0
<b>% age</b>	66.67	33.33	0.00	0.00	0.00	0.00	0.00

## VLSI

### (Theory Papers)

	O (>89)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
<b>VLSI 5201 (Analog VLSI IC Design)</b>	0	0	0	0	2	1	0
<b>% age</b>	0.00	0.00	0.00	0.00	66.67	33.33	0.00
<b>VLSI 5202 (VLSI Design, Testing and Verification)</b>	1	2	0	0	0	0	0
<b>% age</b>	33.33	66.67	0.00	0.00	0.00	0.00	0.00
<b>VLSI 5232 (Low Power VLSI Design)</b>	1	1	1	0	0	0	0
<b>% age</b>	33.33	33.33	33.33	0.00	0.00	0.00	0.00
<b>VLSI 5241 (Advanced VLSI Processor)</b>	3	0	0	0	0	0	0
<b>% age</b>	100.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>VLSI 5242 (Advanced Nano Devices)</b>	3	0	0	0	0	0	0
<b>% age</b>	100.00	0.00	0.00	0.00	0.00	0.00	0.00

### (Lab Papers)

	O (>89)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
<b>VLSI 5251 (Analog VLSI IC Design Lab)</b>	3	0	0	0	0	0	0
<b>% age</b>	100.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>VLSI 5252 (VLSI Design, Testing and Verification Lab)</b>	0	3	0	0	0	0	0
<b>% age</b>	0.00	100.00	0.00	0.00	0.00	0.00	0.00
<b>VLSI 5293 (Term Paper and Seminar)</b>	3	0	0	0	0	0	0
<b>% age</b>	100.00	0.00	0.00	0.00	0.00	0.00	0.00

## BIOTECHNOLOGY

### (Theory Papers)

	O (>89)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
<b>BIOT 5201 (Advanced Bioinformatics)</b>	0	0	6	4	6	0	2
<b>% age</b>	0.00	0.00	33.33	22.22	33.33	0.00	11.11
<b>BIOT 5202 (Advances in Bioreactor Design, Development and Scale up)</b>	0	9	4	0	3	2	0
<b>% age</b>	0.00	50.00	22.22	0.00	16.67	11.11	0.00
<b>BIOT 5231/32 (Advanced Cell Biology and Immunotechnology/Genomics and Proteomics)</b>	0	4	1	4	5	3	1
<b>% age</b>	0.00	22.22	5.56	22.22	27.78	16.67	5.56
<b>BIOT 5241/42 (Bioprocess Technology/Advanced Food Biotechnology)</b>	4	6	3	2	1	1	1
<b>% age</b>	22.22	33.33	16.67	11.11	5.56	5.56	5.56

### (Lab Papers)

	O (>89)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
<b>BIOT 5251 (Advanced Bioinformatics Lab)</b>	1	9	7	1	0	0	0
<b>% age</b>	5.56	50.00	38.89	5.56	0.00	0.00	0.00
<b>BIOT 5252 (Bioreactor Design, and Scale up Lab)</b>	5	9	2	0	0	0	2
<b>% age</b>	27.78	50.00	11.11	0.00	0.00	0.00	11.11
<b>BIOT 5293 (Term Paper and Seminar)</b>	11	6	1	0	0	0	0
<b>% age</b>	61.11	33.33	5.56	0.00	0.00	0.00	0.00

## APPLIED ELECTRONICS & INSTRUMENTATION ENGINEERING

### (Theory Papers)

	O (>89)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
<b>AEIE 5201 (Embedded Systems)</b>	0	1	4	2	0	1	0
<b>% age</b>	0.00	12.50	50.00	25.00	0.00	12.50	0.00
<b>AEIE 5202 (Process Control System Design)</b>	0	2	1	2	2	1	0
<b>% age</b>	0.00	25.00	12.50	25.00	25.00	12.50	0.00
<b>AEIE 5231 (Micro Sensor Science and Technology)</b>	1	3	1	1	1	0	1
<b>% age</b>	12.50	37.50	12.50	12.50	12.50	0.00	12.50
<b>AEIE 5241 (Digital Image Processing )</b>	0	0	1	2	1	3	1
<b>% age</b>	0.00	0.00	12.50	25.00	12.50	37.50	12.50
<b>AEIE 5243 (Industrial Internet of Things)</b>	0	4	1	2	0	0	1
<b>% age</b>	0.00	50.00	12.50	25.00	0.00	0.00	12.50

### (Lab Papers)

	O (>89)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
<b>AEIE 5251 (Embedded Systems Lab)</b>	3	3	1	1	0	0	0
<b>% age</b>	37.50	37.50	12.50	12.50	0.00	0.00	0.00
<b>AEIE 5252 (Process Control System Design Lab)</b>	4	3	0	0	1	0	0
<b>% age</b>	50.00	37.50	0.00	0.00	12.50	0.00	0.00
<b>AEIE 5293 (Term Paper and Seminar)</b>	3	3	1	1	0	0	0
<b>% age</b>	37.50	37.50	12.50	12.50	0.00	0.00	0.00



## RENEWABLE ENERGY

### (Theory Papers)

	O (>89)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
<b>REEN 5201 (Solar Energy Engineering)</b>	0	0	2	2	0	0	0
<b>% age</b>	0.00	0.00	50.00	50.00	0.00	0.00	0.00
<b>REEN 5202 (Technology of Renewable Power Generation )</b>	0	1	3	0	0	0	0
<b>% age</b>	0.00	25.00	75.00	0.00	0.00	0.00	0.00
<b>REEN 5241 (Hydrogen and Fuel Cell Technology)</b>	0	2	1	1	0	0	0
<b>% age</b>	0.00	50.00	25.00	25.00	0.00	0.00	0.00
<b>REEN 5244 (Solar Photovoltaic System Design )</b>	2	1	1	0	0	0	0
<b>% age</b>	50.00	25.00	25.00	0.00	0.00	0.00	0.00
<b>REEN 5246 (Waste Management with Renewable Energy Systems )</b>	0	2	1	1	0	0	0
<b>% age</b>	0.00	50.00	25.00	25.00	0.00	0.00	0.00

### (Lab Papers)

	O (>89)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
<b>REEN 5251 (Non Solar Renewable Energy Lab)</b>	2	0	2	0	0	0	0
<b>% age</b>	50.00	0.00	50.00	0.00	0.00	0.00	0.00
<b>REEN 5252 (Solar Energy Lab)</b>	2	1	1	0	0	0	0
<b>% age</b>	50.00	25.00	25.00	0.00	0.00	0.00	0.00
<b>REEN 5221 (Term Paper and Seminar)</b>	0	0	0	3	1	0	0
<b>% age</b>	0.00	0.00	0.00	75.00	25.00	0.00	0.00

# Result Analysis, Even Sem-2022

## 2nd Year, M.Tech

<b>Computer Science &amp; Engineering (Sessional)</b>									
<b>No. of students = 24</b>									
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F (&lt;40)</b>	<b>FA</b>	<b>FC</b>
CSEN 6295	3	15	5	0	1	0	0	0	0
Dissertation Phase II (% age)	12.50	62.50	20.83	0.00	4.17	0.00	0.00	0.00	0.00
CSEN 6297	5	7	6	6	0	0	0	0	0
Comprehensive Viva-Voce (% age)	20.83	29.17	25.00	25.00	0.00	0.00	0.00	0.00	0.00

<b>Electronics &amp; Communication Engineering (Sessional)</b>									
<b>No. of students = 08</b>									
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F (&lt;40)</b>	<b>FA</b>	<b>FC</b>
ECEN 6295	4	3	1	0	0	0	0	0	0
Dissertation Phase II (% age)	50.00	37.50	12.50	0.00	0.00	0.00	0.00	0.00	0.00
ECEN 6297	3	5	0	0	0	0	0	0	0
Comprehensive Viva-Voce (% age)	37.50	62.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00

<b>VLSI (Sessional)</b>									
<b>No. of students = 02</b>									
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F (&lt;40)</b>	<b>FA</b>	<b>FC</b>
VLSI 6295	0	2	0	0	0	0	0	0	0
Dissertation Phase II (% age)	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VLSI 6297	1	1	0	0	0	0	0	0	0
Comprehensive Viva-Voce (% age)	50.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

<b>Biotechnology (Sessional)</b>									
<b>No. of students = 17</b>									
<b>Paper Code &amp; Percentage</b>	<b>O (&gt;= 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F (&lt;40)</b>	<b>FA</b>	<b>FC</b>
BIOT 6295	8	4	4	0	0	1	0	0	0
Dissertation Phase II (% age)	47.06	23.53	23.53	0.00	0.00	5.88	0.00	0.00	0.00
BIOT 6297	8	4	4	0	0	1	0	0	0
Comprehensive Viva-Voce (% age)	47.06	23.53	23.53	0.00	0.00	5.88	0.00	0.00	0.00

<b>Applied Electronics &amp; Instrumentation Engineering (Sessional)</b>									
<b>No. of students = 7</b>									
<b>Paper Code &amp; Percentage</b>	<b>O (&gt;= 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F (&lt;40)</b>	<b>FA</b>	<b>FC</b>
AEIE 6295	2	4	1	0	0	0	0	0	0
Dissertation Phase II (% age)	28.57	57.14	14.29	0.00	0.00	0.00	0.00	0.00	0.00
AEIE 6297	4	3	0	0	0	0	0	0	0
Comprehensive Viva-Voce (% age)	57.14	42.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00

<b>Renewable Energy (Sessional)</b>									
<b>No. of students = 4</b>									
<b>Paper Code &amp; Percentage</b>	<b>O (&gt;= 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F (&lt;40)</b>	<b>FA</b>	<b>FC</b>
REEN 6295	0	4	0	0	0	0	0	0	0
Dissertation Phase II (% age)	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REEN 6297	0	0	0	2	2	0	0	0	0
Comprehensive Viva-Voce (% age)	0.00	0.00	0.00	50.00	50.00	0.00	0.00	0.00	0.00

# Result Analysis, Even Sem-2022

## 1<sup>st</sup> Year, MCA

(Theory Papers)

Total Students: 58

	O (>89)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
MCAP 1201 (Data Structures and Algorithms)	4	2	9	14	17	11	1
% age	6.90	3.45	15.52	24.14	29.31	18.97	1.72
MCAP 1202 (Computer Communication Networks)	3	4	26	13	10	1	1
% age	5.17	6.90	44.83	22.41	17.24	1.72	1.72
MCAP 1203 (Soft Computing)	2	12	20	17	6	1	0
% age	3.45	20.69	34.48	29.31	10.34	1.72	0.00
MCAP 1204 (Operating Systems)	3	7	18	15	10	1	4
% age	5.17	12.07	31.03	25.86	17.24	1.72	6.90
MCAP 1205 (Information System Analysis and Design)	0	1	13	22	13	6	3
% age	0.00	1.72	22.41	37.93	22.41	10.34	5.17

(Lab Papers)

Total Students: 58

	O (>89)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
MCAP 1211 (Data Structures and Algorithms Lab)	4	11	17	19	6	1	0
% age	6.90	18.97	29.31	32.76	10.34	1.72	0.00
MCAP 1212 (Computer Networks Lab)	36	17	3	1	1	0	0
% age	62.07	29.31	5.17	1.72	1.72	0.00	0.00
HMTS 1221 (Career Development and Management)	12	42	4	0	0	0	0
% age	20.69	72.41	6.90	0.00	0.00	0.00	0.00

# Result Analysis, Even Sem-2022

## 2nd Year, MCA

<b>MCA (Theory)</b>									
<b>No. of students = 57</b>									
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F (&lt;40)</b>	<b>FA</b>	<b>FC</b>
MCAP 2201	0	2	12	34	7	2	0	0	0
Software Engineering (% age)	0.00	3.51	21.05	59.65	12.28	3.51	0.00	0.00	0.00
MCAP 2202	0	8	21	24	4	0	0	0	0
Mobile Application Development and Implementation (% age)	0.00	14.04	36.84	42.11	7.02	0.00	0.00	0.00	0.00
MCAP 2251	0	1	3	20	25	8	0	0	0
Data Mining & Knowledge Discovery (% age)	0.00	1.75	5.26	35.09	43.86	14.04	0.00	0.00	0.00
MCAP 2260/2261/2262	0	5	9	32	11	0	0	0	0
Image Processing / Computer Graphics and Multimedia / Data Science (% age)	0.00	8.77	15.79	56.14	19.30	0.00	0.00	0.00	0.00

<b>MCA (Lab)</b>									
<b>No. of students = 57</b>									

<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F (&lt;40)</b>	<b>FA</b>	<b>FC</b>
MCAP 2211	3	50	4	0	0	0	0	0	0
Software Engineering Lab (% age)	5.26	87.72	7.02	0.00	0.00	0.00	0.00	0.00	0.00
MCAP 2295	16	27	14	0	0	0	0	0	0
Major Project and Seminar (% age)	28.07	47.37	24.56	0.00	0.00	0.00	0.00	0.00	0.00

## Result Analysis, Even Sem-2022

### 3rd Year, MCA

<b>MCA (Sessional)</b>									
<b>No. of students = 54</b>									
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F (&lt;40)</b>	<b>FA</b>	<b>FC</b>
MCAP 3295	14	22	15	3	0	0	0	0	0
Major Project and Seminar (% age)	25.93	40.74	27.78	5.56	0.00	0.00	0.00	0.00	0.00
MCAP 3296	11	22	12	8	1	0	0	0	0
Comprehensive Viva (% age)	20.37	40.74	22.22	14.81	1.85	0.00	0.00	0.00	0.00



HERITAGE INSTITUTE OF TECHNOLOGY

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**RESULTS OF EVEN SEMESTER (1<sup>ST</sup> & 2<sup>ND</sup> YEAR B.TECH)  
EXAMINATIONS, 2021-22**

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*Placed for*

Approval of  
Board of Examinations & Academic Council of HITK

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## B.TECH 1<sup>ST</sup> YEAR RESULT SUMMARY

Stream	SGPA2 $\geq$ 9	SGPA2 $\geq$ 8 & $<$ 9	YGPA1 $\geq$ 9	YGPA1 $\geq$ 8 & $<$ 9	Pass with Zero Backlog	Highest YGPA1
	Regular	Regular	Regular	Regular	Regular	
CSE	8	32	13	57	114	9.78
IT	2	13	4	46	46	9.59
ECE	4	34	15	62	110	9.78
BT	1	13	2	23	43	9.13
AEIE	2	9	1	19	32	9.26
CHE	2	9	4	17	29	9.67
MECH	1	4	1	7	23	9.24
CIVIL	2	3	1	12	27	9.12
EE	1	6	1	13	26	9.33
CSBS	0	9	2	19	38	9.28
AIML	5	10	5	23	42	9.49
DS	3	11	5	20	37	9.63

## B.TECH 2<sup>ND</sup> YEAR RESULT SUMMARY

Stream	SGPA 4 $\geq$ 9		SGPA 4 $\geq$ 8 & $<$ 9		YGPA2 $\geq$ 9		YGPA2 $\geq$ 8 & $<$ 9		Pass with Zero Backlog		Highest YGPA2
	Regular	Lateral	Regular	Lateral	Regular	Lateral	Regular	Lateral	Regular	Lateral	
CSE	16	0	51	8	28	0	117	8	173	13	9.66
IT	5	0	18	1	6	0	28	4	51	7	9.45
ECE	22	0	57	1	42	0	101	7	162	10	9.79(2)
BT	7	0	14	0	6	0	26	0	38	0	9.74
AEIE	3	0	22	0	5	0	38	0	49	2	9.51
CHE	4	0	3	1	4	0	7	4	33	8	9.71
MECH	2	0	14	3	3	0	23	4	70	25	9.31
CIVIL	3	2	14	10	7	6	39	11	60	20	9.74
EE	4	0	14	1	5	0	27	3	46	6	9.38
CSBS	2	0	16	0	7	0	31	1	55	2	9.45





















**RESULT ANALYSIS – EVEN SEM, 2022**  
**2ND YEAR, B.TECH (THEORY)**

<b>COMPUTER SCIENCE &amp; ENGINEERING (THEORY)</b>							
<b>No. of students = 209</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA (&lt;40)</b>
EVSC 2016: Environmental Sciences	2	14	60	70	39	21	3
(%)	0.96	6.70	28.71	33.49	18.66	10.05	1.44
MATH 2201: Mathematics III	14	42	53	52	28	9	11
(%)	6.70	20.10	25.36	24.88	13.40	4.31	5.26
AEIE 2205: Microprocessors and Microcontroller	1	14	35	56	69	27	7
(%)	0.48	6.70	16.75	26.79	33.01	12.92	3.35
CSEN 2201: Design & Analysis of Algorithms	3	11	34	61	60	24	16
(%)	1.44	5.26	16.27	29.19	28.71	11.48	7.66
CSEN 2202 : Computer Organization and Architecture	5	28	66	61	29	13	7
(%)	2.39	13.40	31.58	29.19	13.88	6.22	3.35
CSEN 2203: Operating Systems	12	46	61	46	25	12	7
(%)	5.74	22.01	29.19	22.01	11.96	5.74	3.35

<b>INFORMATION TECHNOLOGY (THEORY)</b>							
<b>No. of students = 64</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA (&lt;40)</b>
MATH 2201: Mathematics III	4	4	15	16	17	6	2
(%)	6.25	6.25	23.44	25.00	26.56	9.38	3.13
INFO 2201: Formal Language & Automata Theory	0	6	15	16	8	17	2
(%)	0.00	9.38	23.44	25.00	12.50	26.56	3.13
INFO 2202: Object Oriented Programming	4	19	6	10	8	15	2
(%)	6.25	29.69	9.38	15.63	12.50	23.44	3.13
INFO 2203 : Computer Organization and Architecture	0	2	7	19	17	15	4
(%)	0.00	3.13	10.94	29.69	26.56	23.44	6.25
INFO 2204: Database Management Systems	6	14	21	12	5	5	1
(%)	9.38	21.88	32.81	18.75	7.81	7.81	1.56

<b>ELECTRONICS &amp; COMMUNICATION ENGINEERING (THEORY)</b>							
<b>No. of students = 209</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA (&lt;40)</b>
EVSC 2016: Environmental Sciences	4	17	46	72	48	16	6
(%)	1.91	8.13	22.01	34.45	22.97	7.66	2.87
MATH 2202: Advanced Numerical Methods	43	61	40	30	20	9	6
(%)	20.57	29.19	19.14	14.35	9.57	4.31	2.87
ECEN 2201: Analog Communication	34	43	36	42	26	18	10
(%)	16.27	20.57	17.22	20.10	12.44	8.61	4.78
ECEN 2202: Digital Systems Design	8	23	41	49	45	30	13
(%)	3.83	11.00	19.62	23.44	21.53	14.35	6.22
ECEN 2203 : EM Theory & Transmission Lines	3	14	35	30	54	54	19
(%)	1.44	6.70	16.75	14.35	25.84	25.84	9.09
ECEN 2204: Electronic Devices	4	16	24	38	66	41	20
(%)	1.91	7.66	11.48	18.18	31.58	19.62	9.57
ECEN 2211: Control Systems	37	55	49	26	23	15	4
(%)	17.70	26.32	23.44	12.44	11.00	7.18	1.91

<b>BIOTECHNOLOGY (THEORY)</b>							
<b>No. of students = 51</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA (&lt;40)</b>
CSEN 2005: Data Structure	0	8	7	12	9	12	3
(%)	0.00	15.69	13.73	23.53	17.65	23.53	5.88
BIOT 2201: Thermodynamics & Kinetics	6	10	13	10	5	5	2
(%)	11.76	19.61	25.49	19.61	9.80	9.80	3.92
BIOT 2202: Transfer Operation - I	9	10	15	5	8	1	3
(%)	17.65	19.61	29.41	9.80	15.69	1.96	5.88
BIOT 2203 : Molecular Biology	1	4	4	12	11	8	11
(%)	1.96	7.84	7.84	23.53	21.57	15.69	21.57
BIOT 2204: Industrial Microbiology & Enzyme Technology	3	16	15	10	4	2	1
(%)	5.88	31.37	29.41	19.61	7.84	3.92	1.96
BIOT 2211: Bioseparation Technology	11	6	13	6	4	6	5
(%)	21.57	11.76	25.49	11.76	7.84	11.76	9.80

<b>APPLIED ELECTRONICS &amp; INSTRUMENTATION ENGINEERING (THEORY)</b>							
<b>No. of students = 57</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA (&lt;40)</b>
EVSC 2016: Environmental Sciences	0	4	18	19	9	7	0
(%)	0.00	7.02	31.58	33.33	15.79	12.28	0.00
CSEN 2004: Data Structure and Basic Algorithms	23	12	12	10	0	0	0
(%)	40.35	21.05	21.05	17.54	0.00	0.00	0.00
AEIE 2201: Digital Electronics	1	7	11	15	12	6	5
(%)	1.75	12.28	19.30	26.32	21.05	10.53	8.77
AEIE 2202 : Industrial Instrumentation	0	3	5	23	15	11	0
(%)	0.00	5.26	8.77	40.35	26.32	19.30	0.00
AEIE 2203: Electrical and Electronic Measurements	0	2	10	20	19	6	0
(%)	0.00	3.51	17.54	35.09	33.33	10.53	0.00
AEIE 2204: Control Systems	5	6	15	10	12	8	1
(%)	8.77	10.53	26.32	17.54	21.05	14.04	1.75

<b>CHEMICAL ENGINEERING (THEORY)</b>							
<b>No. of students = 52</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA (&lt;40)</b>
EVSC 2016: Environmental Sciences	1	5	6	7	22	10	1
(%)	1.92	9.62	11.54	13.46	42.31	19.23	1.92
HMTS 2001: Human Values and Professional Ethics	2	4	17	15	9	3	2
(%)	3.85	7.69	32.69	28.85	17.31	5.77	3.85
CHEM 2201: Chemistry II	2	4	3	7	10	23	3
(%)	3.85	7.69	5.77	13.46	19.23	44.23	5.77
CHEN 2201 : Heat Transfer	6	6	9	8	9	9	5
(%)	11.54	11.54	17.31	15.38	17.31	17.31	9.62
CHEN 2202: Transport Phenomena	2	2	1	9	14	18	6
(%)	3.85	3.85	1.92	17.31	26.92	34.62	11.54
CHEN 2203: Thermodynamics II	2	4	10	16	11	9	0
(%)	3.85	7.69	19.23	30.77	21.15	17.31	0.00
CHEN 2204: Material Science	4	1	2	10	19	10	6
(%)	7.69	1.92	3.85	19.23	36.54	19.23	11.54

<b>MECHANICAL ENGINEERING (THEORY)</b>							
<b>No. of students = 122</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA (&lt;40)</b>
MECH 2201: Strength of Materials	0	10	22	21	32	30	7
(%)	0.00	8.20	18.03	17.21	26.23	24.59	5.74
MECH 2202: Fluid Machinery	2	17	15	26	28	32	2
(%)	1.64	13.93	12.30	21.31	22.95	26.23	1.64
MECH 2203: Engineering Thermodynamics	0	3	9	27	42	29	12
(%)	0.00	2.46	7.38	22.13	34.43	23.77	9.84
MECH 2204 : Manufacturing Processes	0	7	18	34	32	24	7
(%)	0.00	5.74	14.75	27.87	26.23	19.67	5.74
MECH 2205: Kinematics of Machines	1	8	11	29	36	24	13
(%)	0.82	6.56	9.02	23.77	29.51	19.67	10.66
MECH 2211 : Mechanical Measurement and Instrumentation	7	20	23	23	23	19	7
(%)	5.74	16.39	18.85	18.85	18.85	15.57	5.74

<b>CIVIL ENGINEERING (THEORY)</b>							
<b>No. of students = 123</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA (&lt;40)</b>
HMTS 2001: Human Values & Professional Ethics	9	29	42	27	10	4	2
(%)	7.32	23.58	34.15	21.95	8.13	3.25	1.63
MATH 2001: Mathematical Methods	3	8	22	21	45	16	8
(%)	2.44	6.50	17.89	17.07	36.59	13.01	6.50
CIVL 2201: Structural Analysis I	4	16	20	29	27	17	10
(%)	3.25	13.01	16.26	23.58	21.95	13.82	8.13
CIVL 2202 :Soil Mechanics II	0	1	8	11	24	43	36
(%)	0.00	0.81	6.50	8.94	19.51	34.96	29.27
CIVL 2203: Surveying	11	22	23	26	19	17	5
(%)	8.94	17.89	18.70	21.14	15.45	13.82	4.07
CIVL 2204 : Highway and Traffic Engineering	1	6	25	39	41	9	2
(%)	0.81	4.88	20.33	31.71	33.33	7.32	1.63

<b>ELECTRICAL ENGINEERING (THEORY)</b>							
<b>No. of students = 60</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA (&lt;40)</b>
EVSC 2016: Environmental Sciences	0	1	12	27	17	3	0
(%)	0.00	1.67	20.00	45.00	28.33	5.00	0.00
MATH 2001: Mathematical Methods	5	8	16	16	8	4	3
(%)	8.33	13.33	26.67	26.67	13.33	6.67	5.00
ELEC 2201: Electrical Machine I	2	8	20	13	11	5	1
(%)	3.33	13.33	33.33	21.67	18.33	8.33	1.67
ELEC 2202: Signals & Systems	8	24	8	12	4	3	1
(%)	13.33	40.00	13.33	20.00	6.67	5.00	1.67
ELEC 2203: Basic Thermal Power Engineering	1	2	13	18	15	7	4
(%)	1.67	3.33	21.67	30.00	25.00	11.67	6.67
ELEC 2204: Field Theory	2	11	14	15	11	4	3
(%)	3.33	18.33	23.33	25.00	18.33	6.67	5.00
PHYS 2011: Physics II	4	8	13	13	16	2	4
(%)	6.67	13.33	21.67	21.67	26.67	3.33	6.67

<b>COMPUTER SCIENCE &amp; BUSINESS SYSTEMS (THEORY)</b>							
<b>No. of students = 65</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA (&lt;40)</b>
EVSC 2016: Environmental Sciences	0	7	8	24	18	7	1
(%)	0.00	10.77	12.31	36.92	27.69	10.77	1.54
CSBS 2201: Operating System Concept	0	2	15	20	21	7	0
(%)	0.00	3.08	23.08	30.77	32.31	10.77	0.00
CSBS 2202: Computer Organization and Architecture	7	15	13	12	9	8	1
(%)	10.77	23.08	20.00	18.46	13.85	12.31	1.54
CSBS 2203: Design and Analysis of Algorithms	6	10	21	12	11	3	2
(%)	9.23	15.38	32.31	18.46	16.92	4.62	3.08
CSBS 2204: Introduction to Innovation and Entrepreneurship	0	1	8	36	13	6	1
(%)	0.00	1.54	12.31	55.38	20.00	9.23	1.54
CSBS 2005: Managerial Economics	0	2	9	27	20	4	3
(%)	0.00	3.08	13.85	41.54	30.77	6.15	4.62

## 2ND YEAR, B.TECH (LAB)

<b>COMPUTER SCIENCE &amp; ENGINEERING (LAB)</b>							
<b>No. of students = 209</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA (&lt;40)</b>
CSEN 2251 : Design & Analysis of Algorithms Lab	51	71	50	30	1	2	4
(%)	24.40	33.97	23.92	14.35	0.48	0.96	1.91
CSEN 2252: Computer Architecture Lab	71	68	43	18	3	0	6
(%)	33.97	32.54	20.57	8.61	1.44	0.00	2.87
CSEN 2253: Operating Systems Lab	90	58	21	20	11	4	5
(%)	43.06	27.75	10.05	9.57	5.26	1.91	2.39
AEIE 2255 : Microprocessors and Microcontroller Lab	76	105	20	4	2	0	2
(%)	36.36	50.24	9.57	1.91	0.96	0.00	0.96

<b>INFORMATION TECHNOLOGY (LAB)</b>							
<b>No. of students = 64</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA (&lt;40)</b>
INFO 2252 : Object Oriented Programming Lab	13	12	12	6	16	3	2
(%)	20.31	18.75	18.75	9.38	25.00	4.69	3.13
INFO 2253: Computer Organization and Architecture Lab	31	13	17	1	0	1	1
(%)	48.44	20.31	26.56	1.56	0.00	1.56	1.56
INFO 2254: Database Management Systems Lab	16	27	12	7	1	0	1
(%)	25.00	42.19	18.75	10.94	1.56	0.00	1.56

<b>ELECTRONICS &amp; COMMUNICATION ENGINEERING (LAB)</b>							
<b>No. of students = 209</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA (&lt;40)</b>
MATH 2253 : Advanced Numerical Methods Lab	53	61	65	16	8	2	4
(%)	25.36	29.19	31.10	7.66	3.83	0.96	1.91
ECEN 2251: Analog Communication Lab	84	88	36	0	1	0	0
(%)	40.19	42.11	17.22	0.00	0.48	0.00	0.00
ECEN 2252: Digital Systems Design Lab	76	96	32	4	0	0	1
(%)	36.36	45.93	15.31	1.91	0.00	0.00	0.48
ECEN 2253 : EM Theory & Transmission Lines lab	43	69	51	45	1	0	0
(%)	20.57	33.01	24.40	21.53	0.48	0.00	0.00
ECEN 2261 : Control Systems lab	95	75	30	6	3	0	0
(%)	45.45	35.89	14.35	2.87	1.44	0.00	0.00

<b>BIOTECHNOLOGY (LAB)</b>							
<b>No. of students = 51</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA (&lt;40)</b>
BIOT 2252 : Transfer Operation - I Lab	20	21	10	0	0	0	0
(%)	39.22	41.18	19.61	0.00	0.00	0.00	0.00
BIOT 2253: Molecular Biology Lab	7	16	25	3	0	0	0
(%)	13.73	31.37	49.02	5.88	0.00	0.00	0.00
BIOT 2254: Enzyme Technology & Fermentation Technology Lab	9	24	18	0	0	0	0
(%)	17.65	47.06	35.29	0.00	0.00	0.00	0.00
CSEN 2055: Data Structure Lab	8	24	15	2	2	0	0
(%)	15.69	47.06	29.41	3.92	3.92	0.00	0.00

<b>APPLIED ELECTRONICS &amp; INSTRUMENTATION ENGINEERING (LAB)</b>							
<b>No. of students = 57</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA (&lt;40)</b>
CSEN 2054 : Data Structure and Basic Algorithms Lab	38	19	0	0	0	0	0
(%)	66.67	33.33	0.00	0.00	0.00	0.00	0.00
AEIE 2251: Digital Electronics Lab	12	32	11	1	1	0	0
(%)	21.05	56.14	19.30	1.75	1.75	0.00	0.00
AEIE 2252: Industrial Instrumentation Lab	19	35	3	0	0	0	0
(%)	33.33	61.40	5.26	0.00	0.00	0.00	0.00
AEIE 2253:Electrical and Electronic Measurements Lab	29	24	4	0	0	0	0
(%)	50.88	42.11	7.02	0.00	0.00	0.00	0.00
AEIE 2254: Control Systems Lab	24	24	7	2	0	0	0
(%)	42.11	42.11	12.28	3.51	0.00	0.00	0.00

<b>CHEMICAL ENGINEERING (LAB)</b>							
<b>No. of students = 52</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA (&lt;40)</b>
CHEN 2251 : Heat Transfer Lab	14	16	15	4	3	0	0
(%)	26.92	30.77	28.85	7.69	5.77	0.00	0.00
CHEN 2252 : Programming Basics for Numerical Computation	12	6	12	19	3	0	0
(%)	23.08	11.54	23.08	36.54	5.77	0.00	0.00
CHEN 2253: Engineering Drawing Lab	11	29	10	2	0	0	0
(%)	21.15	55.77	19.23	3.85	0.00	0.00	0.00



<b>MECHANICAL ENGINEERING (LAB)</b>							
<b>No. of students = 122</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA (&lt;40)</b>
MECH 2251 : Applied Mechanics Lab	16	37	38	17	10	2	2
(%)	13.11	30.33	31.15	13.93	8.20	1.64	1.64
MECH 2252 : Fluid Mechanics & Hydraulic Machines Lab	15	37	38	24	5	2	1
(%)	12.30	30.33	31.15	19.67	4.10	1.64	0.82
MECH 2256: Machine Drawing II	14	16	28	24	21	17	2
(%)	11.48	13.11	22.95	19.67	17.21	13.93	1.64
MECH 2261: Mechanical Measurement and Instrumentation Lab	19	49	24	12	15	2	1
(%)	15.57	40.16	19.67	9.84	12.30	1.64	0.82

<b>CIVIL ENGINEERING (LAB)</b>							
<b>No. of students = 123</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA (&lt;40)</b>
CIVL 2251 : Soil Mechanics Lab II	42	31	21	21	6	1	1
(%)	34.15	25.20	17.07	17.07	4.88	0.81	0.81
CIVL 2252 : Surveying Lab	44	33	17	9	8	9	3
(%)	35.77	26.83	13.82	7.32	6.50	7.32	2.44
CIVL 2253: Highway Engineering Lab	15	52	24	20	4	5	3
(%)	12.20	42.28	19.51	16.26	3.25	4.07	2.44
CIVL 2254: Quantity Survey, Specification and Valuation	54	37	20	2	4	3	3
(%)	43.90	30.08	16.26	1.63	3.25	2.44	2.44

<b>ELECTRICAL ENGINEERING (LAB)</b>							
<b>No. of students = 60</b>							
<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA (&lt;40)</b>
ELEC 2251: Electrical Machines I Lab	13	31	10	3	1	1	1
(%)	21.67	51.67	16.67	5.00	1.67	1.67	1.67
ELEC 2252 : Signals & Systems Lab	6	24	21	5	3	0	1
(%)	10.00	40.00	35.00	8.33	5.00	0.00	1.67
ELEC 2253: Basic Thermal Power Engineering Lab	2	13	23	16	4	1	1
(%)	3.33	21.67	38.33	26.67	6.67	1.67	1.67

**COMPUTER SCIENCE & BUSINESS SYSTEMS (LAB)**

No. of students = 65

<b>Paper Code &amp; Percentage</b>	<b>O (≥ 90)</b>	<b>E (80-89)</b>	<b>A (70-79)</b>	<b>B (60-69)</b>	<b>C (50-59)</b>	<b>D (40-49)</b>	<b>F/FA (&lt;40)</b>
CSBS 2251: Operating System Concept Lab	15	20	16	8	4	0	2
(%)	23.08	30.77	24.62	12.31	6.15	0.00	3.08
CSBS 2251: Computer Organization and Architecture Lab	18	9	14	6	10	5	3
(%)	27.69	13.85	21.54	9.23	15.38	7.69	4.62
CSBS 2253: Design and Analysis of Algorithms Lab	15	15	21	14	0	0	0
(%)	23.08	23.08	32.31	21.54	0.00	0.00	0.00