



HERITAGE INSTITUTE OF TECHNOLOGY

RESULT OF B.TECH 7TH SEMESTER EXAMINATIONS, 2020-21

Placed for

Approval of
Academic Council

In its meeting dated 21.06.2021

PC
Principal
Heritage Institute of Technology

Prayak
Controller of Examinations
Heritage Institute of Technology

COMPUTER SCIENCE & ENGINEERING

No. of students = 221

THEORY PAPERS

Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F/FA (<40)
CSEN 4101	4	38	112	60	5	0	2
(%)	1.81	17.19	50.68	27.15	2.26	0.00	0.90
CSEN 4144/45	38	130	39	11	0	0	3
(%)	17.19	58.82	17.65	4.98	0.00	0.00	1.36
CSEN 4162	15	145	51	6	2	0	2
(%)	6.79	65.61	23.08	2.71	0.90	0.00	0.90
AEIE 4182/ BIOT 4181/ ECEN 4181/ MATH 4181/MATH 4182	38	51	47	47	26	10	2
(%)	17.19	23.08	21.27	21.27	11.76	4.52	0.90

LAB PAPERS

Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F/FA (<40)
CSEN 4111	61	91	32	28	5	2	2
(%)	27.60	41.18	14.48	12.67	2.26	0.90	0.90
HMTS 4121	61	113	40	4	0	0	3
(%)	27.60	51.13	18.10	1.81	0.00	0.00	1.36
CSEN 4131	73	98	32	16	0	0	2
(%)	33.03	44.34	14.48	7.24	0.00	0.00	0.90
CSEN 4132	51	94	63	9	0	3	1
(%)	23.08	42.53	28.51	4.07	0.00	1.36	0.45
CSEN 4191	105	60	32	23	0	0	1
(%)	47.51	27.15	14.48	10.41	0.00	0.00	0.45

INFORMATION TECHNOLOGY

No. of students =63

THEORY PAPERS

Paper Code & Percentage	O (>= 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F/FA (<40)
INFO 4101	23	32	5	3	0	0	0
(%)	36.51	50.79	7.94	4.76	0.00	0.00	0.00
INFO 4102	8	41	9	3	1	1	0
(%)	12.70	65.08	14.29	4.76	1.59	1.59	0.00
INFO 4142	7	22	14	14	4	2	0
(%)	11.11	34.92	22.22	22.22	6.35	3.17	0.00
MATH 4181/ AEIE4182	6	11	27	15	3	1	0
(%)	9.52	17.46	42.86	23.81	4.76	1.59	0.00

LAB PAPERS

Paper Code & Percentage	O (>= 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F/FA (<40)
INFO 4111	23	27	7	4	2	0	0
(%)	36.51	42.86	11.11	6.35	3.17	0.00	0.00
INFO 4112	14	12	20	7	4	6	0
(%)	22.22	19.05	31.75	11.11	6.35	9.52	0.00
HMTS 4121	0	27	24	1	1	10	0
(%)	0.00	42.86	38.10	1.59	1.59	15.87	0.00
INFO 4121	16	31	8	7	1	0	0
(%)	25.40	49.21	12.70	11.11	1.59	0.00	0.00
INFO 4131	9	26	12	7	7	2	0
(%)	14.29	41.27	19.05	11.11	11.11	3.17	0.00
INFO 4191	10	17	21	8	6	0	1
(%)	15.87	26.98	33.33	12.70	9.52	0.00	1.59

ELECTRONICS & COMMUNICATION ENGINEERING

No. of students =212

THEORY PAPERS

Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F/FA (<40)
ECEN 4101	24	99	73	11	3	1	1
(%)	11.32	46.70	34.43	5.19	1.42	0.47	0.47
ECEN 4102	78	83	41	8	0	0	2
(%)	36.79	39.15	19.34	3.77	0.00	0.00	0.94
ECEN 4103	28	104	63	13	3	0	1
(%)	13.21	49.06	29.72	6.13	1.42	0.00	0.47
AEIE 4182/ CHEN 4182/ CSEN 4181/ CSEN 4182/ INFO 4182/MATH 4181	65	62	59	18	2	1	5
(%)	30.66	29.25	27.83	8.49	0.94	0.47	2.36

LAB PAPERS

Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F/FA (<40)
ECEN 4111	89	103	17	1	1	0	1
(%)	41.98	48.58	8.02	0.47	0.47	0.00	0.47
ECEN 4113	66	122	20	0	1	2	1
(%)	31.13	57.55	9.43	0.00	0.47	0.94	0.47
HMTS 4121	43	109	50	1	3	5	1
(%)	20.28	51.42	23.58	0.47	1.42	2.36	0.47
ECEN 4131	102	92	9	2	6	0	1
(%)	48.11	43.40	4.25	0.94	2.83	0.00	0.47
ECEN 4132	127	74	3	7	0	0	1
(%)	59.91	34.91	1.42	3.30	0.00	0.00	0.47
ECEN 4191	127	81	3	0	0	0	1
(%)	59.91	38.21	1.42	0.00	0.00	0.00	0.47

BIOTECHNOLOGY
No. of students =52

THEORY PAPERS

Paper Code & Percentage	O (>= 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F/FA (<40)
BIOT 4101	9	35	5	2	1	0	0
(%)	17.31	67.31	9.62	3.85	1.92	0.00	0.00
BIOT 4102	48	4	0	0	0	0	0
(%)	92.31	7.69	0.00	0.00	0.00	0.00	0.00
BIOT 4141/4142/4143	25	25	2	0	0	0	0
(%)	48.08	48.08	3.85	0.00	0.00	0.00	0.00
BIOT 4162/4164/4165	26	16	5	3	1	1	0
(%)	50.00	30.77	9.62	5.77	1.92	1.92	0.00
CHEN 4181/4182	21	28	3	0	0	0	0
(%)	40.38	53.85	5.77	0.00	0.00	0.00	0.00

LAB PAPERS

Paper Code & Percentage	O (>= 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F/FA (<40)
BIOT 4151/52/53	34	16	1	1	0	0	0
(%)	65.38	30.77	1.92	1.92	0.00	0.00	0.00
HMTS 4121	15	37	0	0	0	0	0
(%)	28.85	71.15	0.00	0.00	0.00	0.00	0.00
BIOT 4131	33	19	0	0	0	0	0
(%)	63.46	36.54	0.00	0.00	0.00	0.00	0.00
BIOT 4134	51	0	0	1	0	0	0
(%)	98.08	0.00	0.00	1.92	0.00	0.00	0.00
BIOT 4191	42	8	2	0	0	0	0
(%)	80.77	15.38	3.85	0.00	0.00	0.00	0.00

APPLIED ELECTRONICS & INSTRUMENTATION ENGINEERING

No. of students =60

THEORY PAPERS

Paper Code & Percentage	O (>= 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F/FA (<40)
AEIE 4101	7	23	24	6	0	0	0
(%)	11.67	38.33	40.00	10.00	0.00	0.00	0.00
AEIE 4102	20	31	8	1	0	0	0
(%)	33.33	51.67	13.33	1.67	0.00	0.00	0.00
AEIE 4142/ 4143	15	33	10	1	1	0	0
(%)	25.00	55.00	16.67	1.67	1.67	0.00	0.00
CSEN 4182/ BIOT 4181/ ECEN 4181/MATH 4182	23	10	13	12	2	0	0
(%)	38.33	16.67	21.67	20.00	3.33	0.00	0.00

LAB PAPERS

Paper Code & Percentage	O (>= 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F/FA (<40)
AEIE 4111	28	20	10	1	1	0	0
(%)	46.67	33.33	16.67	1.67	1.67	0.00	0.00
AEIE 4112	28	22	10	0	0	0	0
(%)	46.67	36.67	16.67	0.00	0.00	0.00	0.00
HMTS 4121	0	42	18	0	0	0	0
(%)	0.00	70.00	30.00	0.00	0.00	0.00	0.00
AEIE 4131	20	35	5	0	0	0	0
(%)	33.33	58.33	8.33	0.00	0.00	0.00	0.00
AEIE 4191	26	30	4	0	0	0	0
(%)	43.33	50.00	6.67	0.00	0.00	0.00	0.00

CHEMICAL ENGINEERING

No. of students =64

THEORY PAPERS

Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F/FA (<40)
CHEN 4101	1	12	24	26	1	0	0
(%)	1.56	18.75	37.50	40.63	1.56	0.00	0.00
CHEN 4103	0	3	27	22	10	2	0
(%)	0.00	4.69	42.19	34.38	15.63	3.13	0.00
CHEN 4141/4142	16	37	8	1	0	0	2
(%)	25.00	57.81	12.50	1.56	0.00	0.00	3.13
AEIE 4181/ BIOT 4182	35	19	10	0	0	0	0
(%)	54.69	29.69	15.63	0.00	0.00	0.00	0.00

LAB PAPERS

Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F/FA (<40)
CHEN 4112	45	19	0	0	0	0	0
(%)	70.31	29.69	0.00	0.00	0.00	0.00	0.00
CHEN 4113	22	33	9	0	0	0	0
(%)	34.38	51.56	14.06	0.00	0.00	0.00	0.00
HMTS 4121	4	41	19	0	0	0	0
(%)	6.25	64.06	29.69	0.00	0.00	0.00	0.00
CHEN 4131	9	52	3	0	0	0	0
(%)	14.06	81.25	4.69	0.00	0.00	0.00	0.00
CHEN 4132	8	32	19	5	0	0	0
(%)	12.50	50.00	29.69	7.81	0.00	0.00	0.00
CHEN 4191	3	42	15	4	0	0	0
(%)	4.69	65.63	23.44	6.25	0.00	0.00	0.00

MECHANICAL ENGINEERING

No. of students =139

THEORY PAPERS

Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F/FA (<40)
MECH 4101	10	49	64	11	1	4	0
(%)	7.19	35.25	46.04	7.91	0.72	2.88	0.00
MECH 4102	16	80	32	7	3	1	0
(%)	11.51	57.55	23.02	5.04	2.16	0.72	0.00
MECH 4103	74	57	5	1	1	1	0
(%)	53.24	41.01	3.60	0.72	0.72	0.72	0.00
MECH 4141/42/43/44	41	54	36	7	0	1	0
(%)	29.50	38.85	25.90	5.04	0.00	0.72	0.00
CHEN 4182/CIVL 4181	80	48	11	0	0	0	0
(%)	57.55	34.53	7.91	0.00	0.00	0.00	0.00

LAB PAPERS

Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F/FA (<40)
MECH 4111	24	67	29	11	4	3	1
(%)	17.27	48.20	20.86	7.91	2.88	2.16	0.72
MECH 4112	36	52	30	18	2	0	1
(%)	25.90	37.41	21.58	12.95	1.44	0.00	0.72
HMTS 4121	31	75	33	0	0	0	0
(%)	22.30	53.96	23.74	0.00	0.00	0.00	0.00
MECH 4131	69	58	8	3	1	0	0
(%)	49.64	41.73	5.76	2.16	0.72	0.00	0.00
MECH 4191	53	65	15	5	0	1	0
(%)	38.13	46.76	10.79	3.60	0.00	0.72	0.00

CIVIL ENGINEERING

No. of students =141

THEORY PAPERS

Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F/FA (<40)
CIVL 4101	56	75	8	1	1	0	0
(%)	39.72	53.19	5.67	0.71	0.71	0.00	0.00
CIVL 4144	56	73	10	1	1	0	0
(%)	39.72	51.77	7.09	0.71	0.71	0.00	0.00
CIVL 4163	83	58	0	0	0	0	0
(%)	58.87	41.13	0.00	0.00	0.00	0.00	0.00
CHEN 4181/CHEN 4182/ELEC 4182/MECH 4181	21	88	28	4	0	0	0
(%)	14.89	62.41	19.86	2.84	0.00	0.00	0.00

LAB PAPERS

Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F/FA (<40)
CIVL 4111	30	35	48	22	6	0	0
(%)	21.28	24.82	34.04	15.60	4.26	0.00	0.00
HMTS 4121	59	36	38	6	2	0	0
(%)	41.84	25.53	26.95	4.26	1.42	0.00	0.00
CIVL 4131	64	49	22	5	1	0	0
(%)	45.39	34.75	15.60	3.55	0.71	0.00	0.00
CIVL 4132	56	59	21	3	1	0	1
(%)	39.72	41.84	14.89	2.13	0.71	0.00	0.71
CIVL 4191	67	43	26	3	2	0	0
(%)	47.52	30.50	18.44	2.13	1.42	0.00	0.00

ELECTRICAL ENGINEERING

No. of students =74

THEORY PAPERS

Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F/FA (<40)
ELEC 4101	53	10	11	0	0	0	0
(%)	71.62	13.51	14.86	0.00	0.00	0.00	0.00
ELEC 4102	0	12	51	8	3	0	0
(%)	0.00	16.22	68.92	10.81	4.05	0.00	0.00
ELEC 4161	55	16	3	0	0	0	0
(%)	74.32	21.62	4.05	0.00	0.00	0.00	0.00
AEIE 4181/INFO 4182	38	28	7	0	1	0	0
(%)	51.35	37.84	9.46	0.00	1.35	0.00	0.00

LAB PAPERS

Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F/FA (<40)
ELEC 4111	2	8	41	21	2	0	0
(%)	2.70	10.81	55.41	28.38	2.70	0.00	0.00
HMTS 4121	18	48	8	0	0	0	0
(%)	24.32	64.86	10.81	0.00	0.00	0.00	0.00
ELEC 4121	5	62	6	1	0	0	0
(%)	6.76	83.78	8.11	1.35	0.00	0.00	0.00
ELEC 4031	5	28	37	4	0	0	0
(%)	6.76	37.84	50.00	5.41	0.00	0.00	0.00
ELEC 4131	0	18	53	2	0	1	0
(%)	0.00	24.32	71.62	2.70	0.00	1.35	0.00
ELEC 4191	0	25	38	11	0	0	0
(%)	0.00	33.78	51.35	14.86	0.00	0.00	0.00



HERITAGE INSTITUTE OF TECHNOLOGY

RESULT OF M.TECH 3rd SEMESTER EXAMINATIONS, 2020-21

Placed for

Approval of
Academic Council

01.07.2021

Prayak

PC
Principal
Heritage Institute of Technology

RESULT SUMMARY

M.TECH IN COMPUTER SCIENCE & ENGINEERING (3RD Semester 2020)

No. of students =11

THEORY PAPERS

Paper Code & Percentage	O (>= 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
CSEN 6137: Information Retrieval	1	3	5	0	1	1	0
(%)	9.09	27.27	45.45	0.00	9.09	9.09	0.00
MATH 6121: Optimization Techniques	0	8	1	0	2	0	0
(%)	0.00	72.73	9.09	0.00	18.18	0.00	0

SESSIONAL

Paper Code & Percentage	O (>= 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
CSEN 6195: Dissertation Phase -I	6	3	2	0	0	0	0
(%)	54.55	27.27	18.18	0.00	0.00	0.00	0

M.TECH IN ELECTRONICS & COMMUNICATION ENGINEERING (3RD Semester 2020)

No. of students =4

THEORY PAPERS

Paper Code & Percentage	O (>= 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
ECEN 6132: Internet of Things (IoT) and Applications	1	2	1	0	0	0	0
(%)	25.00	50.00	25.00	0.00	0.00	0.00	0.00
MATH 6121: Optimization Techniques	0	2	2	0	0	0	0
(%)	0.00	50.00	50.00	0.00	0.00	0.00	0.00

SESSIONAL

Paper Code & Percentage	O (>= 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
ECEN 6195: Dissertation Phase -I	2	2	0	0	0	0	0
(%)	50.00	50.00	0.00	0.00	0.00	0.00	0.00

M.TECH IN ECE - VLSI (3RD Semester 2020)

No. of students =8

THEORY PAPERS

Paper Code & Percentage	O (>= 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
VLSI 6132: RF IC Design and MEMS	0	5	1	1	1	0	0
(%)	0.00	62.50	12.50	12.50	12.50	0.00	0.00
MATH 6121: Optimization Techniques	0	0	2	3	2	0	1
(%)	0.00	0.00	25.00	37.50	25.00	0.00	12.50

SESSIONAL

Paper Code & Percentage	O (>= 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
VLSI 6195: Dissertation Phase -I	4	1	2	1	0	0	0
(%)	50.00	12.50	25.00	12.50	0.00	0.00	0.00

M.TECH IN BIOTECHNOLOGY (3RD Semester 2020)

No. of students =13

THEORY PAPERS

Paper Code & Percentage	O (>= 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
BIOT 6121: Engineering Mathematics and Biostatistics	11	2	0	0	0	0	0
(%)	84.62	15.38	0.00	0.00	0.00	0.00	0.00
BIOT 6131/ BIOT 6132/ BIOT 6133: Modelling and Simulation in Bioprocess/ Biopharmaceuticals/ Downstream Processing	9	4	0	0	0	0	0
(%)	69.23	30.77	0.00	0.00	0.00	0.00	0.00

SESSIONAL

Paper Code & Percentage	O (>= 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
BIOT 6195: Dissertation-I / Industrial Project	12	1	0	0	0	0	0
(%)	92.31	7.69	0.00	0.00	0.00	0.00	0.00

M.TECH IN APPLIED ELECTRONICS & INSTRUMENTATION ENGINEERING
(3RD Semester 2020)
No. of students =8

THEORY PAPERS

Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
AEIE 6134: Remote Sensing	0	4	1	2	0	0	1
(%)	0.00	50.00	12.50	25.00	0.00	0.00	12.50
AEIE 6121: Biosignal & Biomedical Image Processing	2	1	2	3	0	0	0
(%)	25.00	12.50	25.00	37.50	0.00	0.00	0.00

SESSIONAL

Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
AEIE 6195: Dissertation Phase -I	3	5	0	0	0	0	0
(%)	37.50	62.50	0.00	0.00	0.00	0.00	0.00

M.TECH IN RENEWABLE ENERGY (3RD Semester 2020)
No. of students =4

THEORY PAPERS

Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
REEN 6143: Environment Impact Assessment	1	3	0	0	0	0	0
(%)	25.00	75.00	0.00	0.00	0.00	0.00	0.00
REEN 6122: Safety & Hazards in Energy Industry	1	0	3	0	0	0	0
(%)	25.00	0.00	75.00	0.00	0.00	0.00	0.00

SESSIONAL

Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
REEN 6195: Dissertation /Industrial Project - Phase -I	0	1	2	1	0	0	0
(%)	0.00	25.00	50.00	25.00	0.00	0.00	0.00



HERITAGE INSTITUTE OF TECHNOLOGY

RESULT OF MCA 5th SEMESTER EXAMINATIONS, 2020-21

Placed for

Approval of
Academic Council
01.07.2021

PC
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Prayak
Controller of Examinations
Heritage Institute of Technology

RESULT SUMMARY

MASTER IN COMPUTER APPLICATIONS (5th Semester 2020)

No. of students =46

THEORY PAPERS

Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
MCAP 3150: System Administration using Linux	1	26	13	3	2	1	0
(%)	2.17	56.52	28.26	6.52	4.35	2.17	0.00
MCAP 3160: Cryptography and Network Security	17	16	8	4	0	0	1
(%)	36.96	34.78	17.39	8.70	0.00	0.00	2.17
MCAP 3171: Soft Computing	15	23	3	3	1	1	0
(%)	32.61	50.00	6.52	6.52	2.17	2.17	0.00
MCAP 3183: Ecommerce and ERP	4	26	10	4	1	1	0
(%)	8.70	56.52	21.74	8.70	2.17	2.17	0.00

LAB PAPERS

Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
MCAP 3155: System Administration Lab	21	20	2	1	1	1	0
(%)	45.65	43.48	4.35	2.17	2.17	2.17	0.00
MCAP 3195: Minor Project and Seminar	20	9	5	1	10	0	1
(%)	43.48	19.57	10.87	2.17	21.74	0.00	2.17



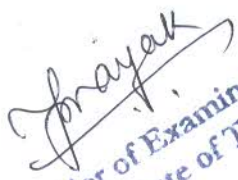
HERITAGE INSTITUTE OF TECHNOLOGY

RESULT OF B.TECH 5TH SEMESTER EXAMINATIONS, 2020-21

Placed for

Approval of
Academic Council
12.07.2021


Principal
Heritage Institute of Technology


Controller of Examinations
Heritage Institute of Technology

COMPUTER SCIENCE & ENGINEERING

No. of students = 217

THEORY PAPERS

Paper Code & Percentage	O (>= 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
CSEN 3101 Database Management Systems	9	110	82	13	3	0	0
(%)	4.15	50.69	37.79	5.99	1.38	0.00	0.00
CSEN 3102 Formal Language & Automata Theory	57	98	48	10	1	3	0
(%)	26.27	45.16	22.12	4.61	0.46	1.38	0.00
CSEN 3103 Object Oriented Programming	11	110	72	22	1	1	0
(%)	5.07	50.69	33.18	10.14	0.46	0.46	0.00
ECEN 3106 Electronic Design Automation	156	56	5	0	0	0	0
(%)	71.89	25.81	2.30	0.00	0.00	0.00	0.00
CSEN 3132/33/35 Data Mining & Knowledge Discovery, Web Technologies, Introduction to Data Analysis with Python and R,	153	45	18	0	1	0	0
(%)	70.51	20.74	8.29	0.00	0.46	0.00	0.00
CSEN 3111 Artificial Intelligence	4	60	103	40	8	2	0
(%)	1.84	27.65	47.47	18.43	3.69	0.92	0.00

LAB PAPERS

Paper Code & Percentage	O (>= 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
CSEN 3151 Database Management Systems Lab	17	78	55	36	30	0	1
(%)	7.83	35.94	25.35	16.59	13.82	0.00	0.46
CSEN 3153 Object Oriented Programming Lab	65	61	41	23	11	14	2
(%)	29.95	28.11	18.89	10.60	5.07	6.45	0.92
ECEN 3156 Electronic Design Automation	149	64	2	0	2	0	0
(%)	68.66	29.49	0.92	0.00	0.92	0.00	0.00
CSEN 3161 Artificial Intelligence Lab	80	83	31	15	5	1	2
(%)	36.87	38.25	14.29	6.91	2.30	0.46	0.92

INFORMATION TECHNOLOGY

No. of students =63

THEORY PAPERS

Paper Code & Percentage	O (>= 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
INCO 3016 Indian Constitution And Civil Society	0	0	0	31	32	0	0
(%)	0.00	0.00	0.00	49.21	50.79	0.00	0.00
INFO 3101 Advanced Java & Web Technology	5	32	19	4	1	2	0
(%)	7.94	50.79	30.16	6.35	1.59	3.17	0.00
INFO 3102 Operating Systems	8	45	10	0	0	0	0
(%)	12.70	71.43	15.87	0.00	0.00	0.00	0.00
INFO 3103 Design & Analysis of Algorithms	9	31	18	4	1	0	0
(%)	14.29	49.21	28.57	6.35	1.59	0.00	0.00
INFO 3104 Software Engineering	27	27	4	4	1	0	0
(%)	42.86	42.86	6.35	6.35	1.59	0.00	0.00
INFO 3131/32/33 Computer Graphics, Distributed Database Management Systems, Compiler Design,	7	40	8	7	1	0	0
(%)	11.11	63.49	12.70	11.11	1.59	0.00	0.00

LAB PAPERS

Paper Code & Percentage	O (>= 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
INFO 3151 Advanced Java & Web Technology Lab	27	19	11	3	2	1	0
(%)	42.86	30.16	17.46	4.76	3.17	1.59	0.00
INFO 3152 Operating Systems Lab	17	22	12	5	5	2	0
(%)	26.98	34.92	19.05	7.94	7.94	3.17	0.00
INFO 3153 Design & Analysis of Algorithms Lab	17	24	14	7	0	1	0
(%)	26.98	38.10	22.22	11.11	0.00	1.59	0.00
INFO 3154 Software Engineering Lab	5	35	15	3	1	3	1
(%)	7.94	55.56	23.81	4.76	1.59	4.76	1.59

ELECTRONICS & COMMUNICATION ENGINEERING

No. of students =188

THEORY PAPERS

Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
ECEN 3101 Digital Communication	39	85	49	10	5	0	0
(%)	20.74	45.21	26.06	5.32	2.66	0.00	0.00
ECEN 3102 Digital Signal Processing	105	59	19	3	1	0	1
(%)	55.85	31.38	10.11	1.60	0.53	0.00	0.53
ECEN 3103 Microwave Engineering	75	74	32	6	1	0	0
(%)	39.89	39.36	17.02	3.19	0.53	0.00	0.00
ECEN 3104 Microprocessors and Microcontrollers	147	39	2	0	0	0	0
(%)	78.19	20.74	1.06	0.00	0.00	0.00	0.00
ECEN 3105 Information Theory and Coding	88	88	10	1	1	0	0
(%)	46.81	46.81	5.32	0.53	0.53	0.00	0.00
ECEN 3131/32/33 Telecommunication Systems, Computer Networks, Speech and Audio Processing	118	59	9	1	1	0	0
(%)	62.77	31.38	4.79	0.53	0.53	0.00	0.00

LAB PAPERS

Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
ECEN 3151 Digital Communication Laboratory	49	83	50	5	0	0	1
(%)	26.06	44.15	26.60	2.66	0.00	0.00	0.53
ECEN 3152 Digital Signal Processing Laboratory	88	96	3	0	0	0	1
(%)	46.81	51.06	1.60	0.00	0.00	0.00	0.53
ECEN 3153 Microwave Engineering Laboratory	47	96	43	1	0	0	1
(%)	25.00	51.06	22.87	0.53	0.00	0.00	0.53
ECEN 3154 Microprocessors and Microcontrollers Laboratory	61	62	61	3	0	0	1
(%)	32.45	32.98	32.45	1.60	0.00	0.00	1.59

BIOTECHNOLOGY
No. of students =58
THEORY PAPERS

Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
INCO 3016 Indian Constitution And Civil Society	0	21	27	8	2	0	0
(%)	0.00	36.21	46.55	13.79	3.45	0.00	0.00
BIOT 3101 Genetics	35	18	4	1	0	0	0
(%)	60.34	31.03	6.90	1.72	0.00	0.00	0.00
BIOT 3102 Bioinformatics	6	22	21	4	3	1	1
(%)	10.34	37.93	36.21	6.90	5.17	1.72	1.72
BIOT 3103 Recombinant DNA Technology	4	30	19	4	0	1	0
(%)	6.90	51.72	32.76	6.90	0.00	1.72	0.00
BIOT 3104 Transfer Operation-II	51	7	0	0	0	0	0
(%)	87.93	12.07	0.00	0.00	0.00	0.00	0.00
BIOT 3131/32/33 Food Biotechnology, Environmental Biotechnology, Bioprocess & Process Instrumentation	43	14	1	0	0	0	0
(%)	74.14	24.14	1.72	0.00	0.00	0.00	0.00

LAB PAPERS

Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
BIOT 3151 Genetics lab	36	19	3	0	0	0	0
(%)	62.07	32.76	5.17	0.00	0.00	0.00	0.00
BIOT 3152 Bioinformatics lab	10	33	9	3	3	0	0
(%)	17.24	56.90	15.52	5.17	5.17	0.00	0.00
BIOT 3153 Recombinant DNA Technology lab	13	22	19	4	0	0	0
(%)	22.41	37.93	32.76	6.90	0.00	0.00	0.00
BIOT 3154 Transfer Operation-II lab	39	19	0	0	0	0	0
(%)	67.24	32.76	0.00	0.00	0.00	0.00	0.00
BIOT 3181/82/83 Food Biotechnology Lab, Environmental Biotechnology Lab, Bioprocess & Process Instrumentation Lab	38	15	4	1	0	0	0
(%)	65.52	25.86	6.90	1.72	0.00	0.00	0.00

APPLIED ELECTRONICS & INSTRUMENTATION ENGINEERING

No. of students =60

THEORY PAPERS

Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
AEIE 3101 Process Control	16	21	13	9	1	0	0
(%)	26.67	35.00	21.67	15.00	1.67	0.00	0.00
AEIE 3102 Power Electronics & Drives	8	37	12	3	0	0	0
(%)	13.33	61.67	20.00	5.00	0.00	0.00	0.00
AEIE 3103 Microprocessors & Microcontrollers	2	20	28	9	1	0	0
(%)	3.33	33.33	46.67	15.00	1.67	0.00	0.00
AEIE 3104 Fundamentals of Digital Signal Processing	5	36	14	4	1	0	0
(%)	8.33	60.00	23.33	6.67	1.67	0.00	0.00
AEIE 3131/32/33 Communication Techniques, Non Conventional Energy Sources, Advanced Sensors	25	27	7	1	0	0	0
(%)	41.67	45.00	11.67	1.67	0.00	0.00	0.00
AEIE3111 Introduction to Mechatronics	0	49	10	1	0	0	0
(%)	0.00	81.67	16.67	1.67	0.00	0.00	0.00

LAB PAPERS

Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
AEIE 3151 Process Control Lab	35	19	2	2	1	0	1
(%)	58.33	31.67	3.33	3.33	1.67	0.00	1.67
AEIE 3152 Power Electronics & Drives Lab	34	20	6	0	0	0	0
(%)	56.67	33.33	10.00	0.00	0.00	0.00	0.00
AEIE 3153 Microprocessors & Microcontrollers Lab	32	18	7	0	2	1	0
(%)	53.33	30.00	11.67	0.00	3.33	1.67	0.00

CHEMICAL ENGINEERING

No. of students =64

THEORY PAPERS

Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
CHEN 3101 Chemical Process Technology	16	35	8	2	1	1	1
(%)	25.00	54.69	12.50	3.13	1.56	1.56	1.56
CHEN 3102 Chemical Reaction Engineering - I	49	11	1	1	1	1	0
(%)	76.56	17.19	1.56	1.56	1.56	1.56	0.00
CHEN 3103 Mass Transfer I	39	22	0	1	0	2	0
(%)	60.94	34.38	0.00	1.56	0.00	3.13	0.00
CHEN 3104 Numerical Methods in Chemical Engineering	1	30	28	3	1	0	1
(%)	1.56	46.88	43.75	4.69	1.56	0.00	1.56
CHEN 3131/32 Petrochemical Technology, Energy Engineering	6	37	16	2	2	1	0
(%)	9.38	57.81	25.00	3.13	3.13	1.56	0.00
CHEN 3141/42 Bioprocess Engineering, Industrial Safety and Hazards Analysis	19	36	7	0	0	2	0
(%)	29.69	56.25	10.94	0.00	0.00	3.13	0.00
CHEN 3111 Chemical Reaction Engineering II	32	25	5	0	0	1	1
(%)	50.00	39.06	7.81	0.00	0.00	1.56	1.56

LAB PAPERS

Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
CHEN 3151 Numerical Computation Laboratory	19	12	18	6	8	0	1
(%)	29.69	18.75	28.13	9.38	12.50	0.00	1.56
CHEN 3152 Chemical Reaction	17	32	11	2	1	0	1
(%)	26.56	50.00	17.19	3.13	1.56	0.00	1.56
CHEN 3153 Energy Laboratory: Theory and Practice	9	42	12	0	0	0	1
(%)	14.06	65.63	18.75	0.00	0.00	0.00	1.56

MECHANICAL ENGINEERING

No. of students =121

THEORY PAPERS

Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
INCO 3016 Indian Constitution And Civil Society	0	0	30	71	19	0	1
(%)	0.00	0.00	24.79	58.68	15.70	0.00	0.83
MECH 3101 Machine Design-I	35	47	26	11	2	0	0
(%)	28.93	38.84	21.49	9.09	1.65	0.00	0.00
MECH 3102 Heat Transfer	8	61	41	8	2	0	1
(%)	6.61	50.41	33.88	6.61	1.65	0.00	0.83
MECH 3103 Engineering Materials	2	25	57	31	5	1	0
(%)	1.65	20.66	47.11	25.62	4.13	0.83	0.00
MECH 3104 Machining & Machine Tools	14	71	28	5	3	0	0
(%)	11.57	58.68	23.14	4.13	2.48	0.00	0.00
MECH 3105 Dynamics of Machines	37	52	20	9	2	0	1
(%)	30.58	42.98	16.53	7.44	1.65	0.00	0.83
MECH 3131/32/33/34 Fluid Power Control, Refrigeration & Air Conditioning, Electrical Machines, Data Structure & RDBMS	13	51	44	11	2	0	0
(%)	10.74	42.15	36.36	9.09	1.65	0.00	0.00

LAB PAPERS

Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
MECH 3152 Applied Thermodynamics & Heat Transfer Lab	11	45	41	19	1	2	2
(%)	9.09	37.19	33.88	15.70	0.83	1.65	1.65
MECH 3155 Dynamics of Machines Lab	21	58	35	4	1	0	2
(%)	17.36	47.93	28.93	3.31	0.83	0.00	1.65
MECH 3181/82/83/84 Fluid Power Control Lab, Refrigeration and Air Conditioning Lab, Electrical Machines Lab, RDBMS Lab	27	50	34	8	1	0	1
(%)	22.31	41.32	28.10	6.61	0.83	0.00	0.83

CIVIL ENGINEERING

No. of students =128

THEORY PAPERS

Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
INCO 3016 Indian Constitution And Civil Society	0	6	70	46	6	0	0
(%)	0.00	4.69	54.69	35.94	4.69	0.00	0.00
CIVL 3101 Structural Analysis -II	17	70	33	5	0	0	3
(%)	13.28	54.69	25.78	3.91	0.00	0.00	2.34
CIVL 3102 Design of R.C.C.Structures	38	59	20	7	3	1	0
(%)	29.69	46.09	15.63	5.47	2.34	0.78	0.00
CIVL 3103 Environmental Engineering	98	30	0	0	0	0	0
(%)	76.56	23.44	0.00	0.00	0.00	0.00	0.00
CSEN 3106 Data Structure & RDBMS	8	61	49	8	1	0	1
(%)	6.25	47.66	38.28	6.25	0.78	0.00	0.78
CIVL 3141 Foundation Engineering	2	27	65	27	6	1	0
(%)	1.56	21.09	50.78	21.09	4.69	0.78	0.00

LAB PAPERS

Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
CIVL 3152 R.C.C.Design and Detailing Lab	12	26	20	33	14	16	7
(%)	9.38	20.31	15.63	25.78	10.94	12.50	5.47
CIVL 3153 Environmental Engineering Lab	38	89	0	1	0	0	0
(%)	29.69	69.53	0.00	0.78	0.00	0.00	0.00
CSEN 3156 RDBMS Lab	47	55	25	0	0	0	1
(%)	36.72	42.97	19.53	0.00	0.00	0.00	0.78

ELECTRICAL ENGINEERING

No. of students =64

THEORY PAPERS

Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
INCO 3016 Indian Constitution And Civil Society	0	0	3	32	29	0	0
(%)	0.00	0.00	4.69	50.00	45.31	0.00	0.00
ELEC 3101 Electrical Machines - II	3	24	30	4	1	2	0
(%)	4.69	37.50	46.88	6.25	1.56	3.13	0.00
ELEC 3102 Power System - I	20	32	7	4	1	0	0
(%)	31.25	50.00	10.94	6.25	1.56	0.00	0.00
ELEC 3103 Control System	7	26	24	4	3	0	0
(%)	10.94	40.63	37.50	6.25	4.69	0.00	0.00
ELEC 3104 Power Electronics	18	37	6	3	0	0	0
(%)	28.13	57.81	9.38	4.69	0.00	0.00	0.00
ELEC 3141 Digital Signal Processing	9	28	17	9	1	0	0
(%)	14.06	43.75	26.56	14.06	1.56	0.00	0.00

LAB PAPERS

Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
ELEC 3151 Electrical Machines - II Lab	4	20	29	11	0	0	0
(%)	6.25	31.25	45.31	17.19	0.00	0.00	0.00
ELEC 3152 Power system - I Lab	0	17	32	13	2	0	0
(%)	0.00	26.56	50.00	20.31	3.13	0.00	0.00
ELEC 3153 Control System Lab	10	23	18	12	1	0	0
(%)	15.63	35.94	28.13	18.75	1.56	0.00	0.00
ELEC 3154 Power Electronics Lab	3	10	22	24	5	0	0
(%)	4.69	15.63	34.38	37.50	7.81	0.00	0.00



HERITAGE INSTITUTE OF TECHNOLOGY

RESULT OF B.TECH, M.Tech & MCA 1st SEMESTER EXAMINATIONS, 2020-21

Placed for

Approval of
Academic Council
12.8.2021

FC
Principal
Heritage Institute of Technology

Prayak
Controller of Examinations
Heritage Institute of Technology

RESULT ANALYSIS - ODD SEM, 2020
1ST YEAR - B.TECH (THEORY)

Mathematics-I											
MATH 1101											
Letter Grade	CSE	IT	ECE	BT	AEIE	ChE	ME	CE	EE	CSBS	Total
O (>89)	94	34	112	28	31	26	33	19	4	4	385
(%)	53.11	57.63	60.87	49.12	51.67	49.06	31.73	18.45	7.41	6.78	42.31
E (80-89)	69	23	54	23	20	21	40	64	31	33	378
(%)	38.98	38.98	29.35	40.35	33.33	39.62	38.46	62.14	57.41	55.93	41.54
A (70-79)	8	1	12	2	6	4	22	17	16	16	104
(%)	4.52	1.69	6.52	3.51	10.00	7.55	21.15	16.50	29.63	27.12	11.43
B (60-69)	1	0	1	1	1	2	4	2	3	3	18
(%)	0.56	0.00	0.54	1.75	1.67	3.77	3.85	1.94	5.56	5.08	1.98
C (50-59)	1	1	1	2	1	0	3	1	0	1	11
(%)	0.56	1.69	0.54	3.51	1.67	0.00	2.88	0.97	0.00	1.69	1.21
D (40-49)	1	0	3	0	0	0	0	0	0	2	6
(%)	0.56	0.00	1.63	0.00	0.00	0.00	0.00	0.00	0.00	3.39	0.66
F/FA (<40)	3	0	1	1	1	0	2	0	0	0	8
(%)	1.69	0.00	0.54	1.75	1.67	0.00	1.92	0.00	0.00	0.00	0.88
Total Students	177	59	184	57	60	53	104	103	54	59	910

Chemistry - I						
CHEM 1001						
Letter Grade	CSE	IT	ECE	AEIE	CSBS	Total
O (>89)	53	6	28	18	2	107
(%)	29.94	10.17	15.22	30.00	3.39	19.85
E (80-89)	91	42	103	27	26	289
(%)	51.41	71.19	55.98	45.00	44.07	53.62
A (70-79)	22	10	34	9	22	97
(%)	12.43	16.95	18.48	15.00	37.29	18.00
B (60-69)	5	0	11	6	8	30
(%)	2.82	0.00	5.98	10.00	13.56	5.57
C (50-59)	1	0	3	0	1	5
(%)	0.56	0.00	1.63	0.00	1.69	0.93
D (40-49)	0	1	2	0	0	3
(%)	0.00	1.69	1.09	0.00	0.00	0.56
F/FA (<40)	5	0	3	0	0	8
(%)	2.82	0.00	1.63	0.00	0.00	1.48
Total Students	177	59	184	60	59	539

Basic Electrical Engineering						
ELEC 1001						
Letter Grade	CSE	IT	ECE	AEIE	CSBS	Total
O (>89)	141	36	116	31	32	356
(%)	79.66	61.02	63.04	51.67	54.24	66.05
E (80-89)	30	19	53	19	15	136
(%)	16.95	32.20	28.80	31.67	25.42	25.23
A (70-79)	2	3	7	8	9	29
(%)	1.13	5.08	3.80	13.33	15.25	5.38
B (60-69)	0	0	2	1	2	5
(%)	0.00	0.00	1.09	1.67	3.39	0.93
C (50-59)	1	0	2	1	0	4
(%)	0.56	0.00	1.09	1.67	0.00	0.74
D (40-49)	1	0	4	0	1	6
(%)	0.56	0.00	2.17	0.00	1.69	1.11
F/FA (<40)	2	1	0	0	0	3
(%)	1.13	1.69	0.00	0.00	0.00	0.56
Total Students	177	59	184	60	59	539

Communication for Professional						
HMTS 1011						
Letter Grade	CSE	IT	ECE	AEIE	CSBS	Total
O (>89)	7	2	19	0	0	28
(%)	3.95	3.39	10.33	0.00	0.00	5.19
E (80-89)	83	48	135	56	13	335
(%)	46.89	81.36	73.37	93.33	22.03	62.15
A (70-79)	81	8	22	3	44	158
(%)	45.76	13.56	11.96	5.00	74.58	29.31
B (60-69)	4	1	6	1	2	14
(%)	2.26	1.69	3.26	1.67	3.39	2.60
C (50-59)	0	0	2	0	0	2
(%)	0.00	0.00	1.09	0.00	0.00	0.37
D (40-49)	0	0	0	0	0	0
(%)	0.00	0.00	0.00	0.00	0.00	0.00
F/FA (<40)	2	0	0	0	0	2
(%)	1.13	0.00	0.00	0.00	0.00	0.37
Total Students	177	59	184	60	59	539

Physics I						
PHYS 1001						
Letter Grade	BT	ChE	ME	CE	EE	Total
O (>89)	3	2	15	1	0	21
(%)	5.26	3.77	14.42	0.97	0.00	5.66
E (80-89)	40	22	55	43	11	171
(%)	70.18	41.51	52.88	41.75	20.37	46.09
A (70-79)	8	18	17	42	32	117
(%)	14.04	33.96	16.35	40.78	59.26	31.54
B (60-69)	2	5	8	11	10	36
(%)	3.51	9.43	7.69	10.68	18.52	9.70
C (50-59)	3	4	7	5	0	19
(%)	5.26	7.55	6.73	4.85	0.00	5.12
D (40-49)	1	2	0	1	1	5
(%)	1.75	3.77	0.00	0.97	1.85	1.35
F/FA (<40)	0	0	2	0	0	2
(%)	0.00	0.00	1.92	0.00	0.00	0.54
Total Students	57	53	104	103	54	371

Programming for Problem Solving						
CSEN 1001						
Letter Grade	BT	ChE	ME	CE	EE	Total
O (>89)	21	29	15	16	12	93
(%)	36.84	54.72	14.42	15.53	22.22	25.07
E (80-89)	30	17	43	50	28	168
(%)	52.63	32.08	41.35	48.54	51.85	45.28
A (70-79)	5	4	28	36	12	85
(%)	8.77	7.55	26.92	34.95	22.22	22.91
B (60-69)	1	2	13	1	2	19
(%)	1.75	3.77	12.50	0.97	3.70	5.12
C (50-59)	0	0	3	0	0	3
(%)	0.00	0.00	2.88	0.00	0.00	0.81
D (40-49)	0	0	1	0	0	1
(%)	0.00	0.00	0.96	0.00	0.00	0.27
F/FA (<40)	0	1	1	0	0	2
(%)	0.00	1.89	0.96	0.00	0.00	0.54
Total Students	57	53	104	103	54	371

Basic Electronics						
ECEN 1011						
Letter Grade	BT	ChE	ME	CE	EE	Total
O (>89)	10	8	33	26	1	78
(%)	17.54	15.09	31.73	25.24	1.85	21.02
E (80-89)	32	27	45	72	26	202
(%)	56.14	50.94	43.27	69.90	48.15	54.45
A (70-79)	11	10	17	4	23	65
(%)	19.30	18.87	16.35	3.88	42.59	17.52
B (60-69)	4	5	6	1	4	20
(%)	7.02	9.43	5.77	0.97	7.41	5.39
C (50-59)	0	2	2	0	0	4
(%)	0.00	3.77	1.92	0.00	0.00	1.08
D (40-49)	0	0	0	0	0	0
(%)	0.00	0.00	0.00	0.00	0.00	0.00
F/FA (<40)	0	1	1	0	0	2
(%)	0.00	1.89	0.96	0.00	0.00	0.54
Total Students	57	53	104	103	54	371

RESULT ANALYSIS - ODD SEM, 2020
1ST YEAR - B.TECH (Lab)

Basic Electrical Engineering Lab						
ELEC 1051						
Letter Grade	CSE	IT	ECE	AEIE	CSBS	Total
O (>89)	12	2	11	0	2	27
(%)	6.78	3.39	5.98	0.00	3.39	5.01
E (80-89)	48	19	67	14	11	159
(%)	27.12	32.20	36.41	23.33	18.64	29.50
A (70-79)	75	31	73	30	29	238
(%)	42.37	52.54	39.67	50.00	49.15	44.16
B (60-69)	30	6	17	16	17	86
(%)	16.95	10.17	9.24	26.67	28.81	15.96
C (50-59)	6	0	13	0	0	19
(%)	3.39	0.00	7.07	0.00	0.00	3.53
D (40-49)	1	0	0	0	0	1
(%)	0.56	0.00	0.00	0.00	0.00	0.19
F/FA (<40)	5	1	3	0	0	9
(%)	2.82	1.69	1.63	0.00	0.00	1.67
Total Students	177	59	184	60	59	539

Physics Lab						
PHYS 1051						
Letter Grade	BT	ChE	ME	CE	EE	Total
O (>89)	20	18	37	14	13	102
(%)	35.09	33.96	35.58	13.59	24.07	27.49
E (80-89)	27	19	35	33	20	134
(%)	47.37	35.85	33.65	32.04	37.04	36.12
A (70-79)	5	11	23	41	15	95
(%)	8.77	20.75	22.12	39.81	27.78	25.61
B (60-69)	2	1	4	11	5	23
(%)	3.51	1.89	3.85	10.68	9.26	6.20
C (50-59)	0	1	1	3	1	6
(%)	0.00	1.89	0.96	2.91	1.85	1.62
D (40-49)	0	0	0	0	0	0
(%)	0.00	0.00	0.00	0.00	0.00	0.00
F/FA (<40)	3	3	4	1	0	11
(%)	5.26	5.66	3.85	0.97	0.00	2.96
Total Students	57	53	104	103	54	371

Professional Communication Lab						
HMTS 1061						
Letter Grade	CSE	IT	ECE	AEIE	CSBS	Total
O (>89)	28	10	14	3	2	57
(%)	15.82	16.95	7.61	5.00	3.39	10.58
E (80-89)	95	27	109	26	21	278
(%)	53.67	45.76	59.24	43.33	35.59	51.58
A (70-79)	39	18	49	28	29	163
(%)	22.03	30.51	26.63	46.67	49.15	30.24
B (60-69)	5	2	7	2	6	22
(%)	2.82	3.39	3.80	3.33	10.17	4.08
C (50-59)	5	1	2	0	1	9
(%)	2.82	1.69	1.09	0.00	1.69	1.67
D (40-49)	0	0	0	0	0	0
(%)	0.00	0.00	0.00	0.00	0.00	0.00
F/FA (<40)	5	1	3	1	0	10
(%)	2.82	1.69	1.63	1.67	0.00	1.86
Total Students	177	59	184	60	59	539

Programming for Problem Solving Lab Solving						
CSEN 1051						
Letter Grade	BT	ChE	ME	CE	EE	Total
O (>89)	31	17	44	20	39	151
(%)	54.39	32.08	42.31	19.42	72.22	40.70
E (80-89)	16	17	37	36	12	118
(%)	28.07	32.08	35.58	34.95	22.22	31.81
A (70-79)	5	8	17	25	2	57
(%)	8.77	15.09	16.35	24.27	3.70	15.36
B (60-69)	3	4	2	13	0	22
(%)	5.26	7.55	1.92	12.62	0.00	5.93
C (50-59)	0	1	2	4	0	7
(%)	0.00	1.89	1.92	3.88	0.00	1.89
D (40-49)	0	2	0	4	0	6
(%)	0.00	3.77	0.00	3.88	0.00	1.62
F/FA (<40)	2	4	2	1	1	10
(%)	3.51	7.55	1.92	0.97	1.85	2.70
Total Students	57	53	104	103	54	371

Basic Electronics Lab						
ECEN 1061						
Letter Grade	BT	ChE	ME	CE	EE	Total
O (>89)	15	17	39	50	9	130
(%)	26.32	32.08	37.50	48.54	16.67	35.04
E (80-89)	28	23	35	49	29	164
(%)	49.12	43.40	33.65	47.57	53.70	44.20
A (70-79)	11	6	17	3	14	51
(%)	19.30	11.32	16.35	2.91	25.93	13.75
B (60-69)	0	3	6	0	0	9
(%)	0.00	5.66	5.77	0.00	0.00	2.43
C (50-59)	0	0	1	0	0	1
(%)	0.00	0.00	0.96	0.00	0.00	0.27
D (40-49)	0	0	2	0	1	3
(%)	0.00	0.00	1.92	0.00	1.85	0.81
F/FA (<40)	3	4	4	1	1	13
(%)	5.26	7.55	3.85	0.97	1.85	3.50
Total Students	57	53	104	103	54	371

Chemistry Lab						
CHEM 1051						
Letter Grade	CSE	IT	ECE	AEIE	CSBS	Total
O (>89)	105	46	101	34	24	310
(%)	59.32	77.97	54.89	56.67	40.68	57.51
E (80-89)	66	10	64	26	28	194
(%)	37.29	16.95	34.78	43.33	47.46	35.99
A (70-79)	1	1	10	0	6	18
(%)	0.56	1.69	5.43	0.00	10.17	3.34
B (60-69)	0	0	1	0	1	2
(%)	0.00	0.00	0.54	0.00	1.69	0.37
C (50-59)	0	0	3	0	0	3
(%)	0.00	0.00	1.63	0.00	0.00	0.56
D (40-49)	0	0	0	0	0	0
(%)	0.00	0.00	0.00	0.00	0.00	0.00
F/FA (<40)	5	2	5	0	0	12
(%)	2.82	3.39	2.72	0.00	0.00	2.23
Total Students	177	59	184	60	59	539

Engineering Graphics & Design						
MECH 1052						
Letter Grade	CSE	IT	ECE	AEIE	CSBS	Total
O (>89)	71	30	50	6	31	188
(%)	40.11	50.85	27.17	10.00	52.54	34.88
E (80-89)	78	21	77	32	15	223
(%)	44.07	35.59	41.85	53.33	25.42	41.37
A (70-79)	16	6	42	15	8	87
(%)	9.04	10.17	22.83	25.00	13.56	16.14
B (60-69)	2	1	8	5	5	21
(%)	1.13	1.69	4.35	8.33	8.47	3.90
C (50-59)	3	0	3	2	0	8
(%)	1.69	0.00	1.63	3.33	0.00	1.48
D (40-49)	2	0	1	0	0	3
(%)	1.13	0.00	0.54	0.00	0.00	0.56
F/FA (<40)	5	1	3	0	0	9
(%)	2.82	1.69	1.63	0.00	0.00	1.67
Total Students	177	59	184	60	59	539

Workshop / Manufacturing Practices						
MECH 1051						
Letter Grade	BT	ChE	ME	CE	EE	Total
O (>89)	24	15	22	8	12	81
(%)	42.11	28.30	21.15	7.77	22.22	21.83
E (80-89)	20	25	40	30	22	137
(%)	35.09	47.17	38.46	29.13	40.74	36.93
A (70-79)	10	8	26	35	18	97
(%)	17.54	15.09	25.00	33.98	33.33	26.15
B (60-69)	0	2	8	27	1	38
(%)	0.00	3.77	7.69	26.21	1.85	10.24
C (50-59)	0	0	3	2	1	6
(%)	0.00	0.00	2.88	1.94	1.85	1.62
D (40-49)	0	0	1	0	0	1
(%)	0.00	0.00	0.96	0.00	0.00	0.27
F/FA (<40)	3	3	4	1	0	11
(%)	5.26	5.66	3.85	0.97	0.00	2.96
Total Students	57	53	104	103	54	371

RESULT ANALYSIS - ODD SEM, 2020
1ST YEAR - M.TECH

Computer Science & Engineering (Theory)							
No. of students = 26							
Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
CSEN 5101: Advanced Data Structures	0	0	13	10	1	0	2
(%)	0.00	0.00	50.00	38.46	3.85	0.00	7.69
CSEN 5102: Research Methodology and IPR	22	2	2	0	0	0	0
(%)	84.62	7.69	7.69	0.00	0.00	0.00	0.00
MATH 5101: Advanced Discrete Mathematics & Statistical Methods	4	12	7	1	2	0	0
(%)	15.38	46.15	26.92	3.85	7.69	0.00	0.00
CSEN 5131: Machine Learning	0	2	17	5	1	1	0
(%)	0.00	7.69	65.38	19.23	3.85	3.85	0.00
CSEN 5141: Data Science	10	13	1	1	0	1	0
(%)	38.46	50.00	3.85	3.85	0.00	3.85	0.00
DIMA 5116: Disaster Management	15	8	1	1	0	1	0
(%)	57.69	30.77	3.85	3.85	0.00	3.85	0.00

Computer Science & Engineering (Lab)							
No. of students = 26							
Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
CSEN 5151: Advanced Data Structure Lab	1	2	13	8	1	1	0
(%)	3.85	7.69	50.00	30.77	3.85	3.85	0.00
CSEN 5181: Machine Learning Lab	0	2	2	13	0	0	0
(%)	0.00	7.69	7.69	50.00	0.00	0.00	0.00

Electronics & Communication Engineering (Theory)							
No. of students = 8							
Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
ECEN 5101: Antenna & Radiating Systems	0	4	4	0	0	0	0
(%)	0.00	50.00	50.00	0.00	0.00	0.00	0.00
ECEN 5102: Wireless & Mobile Communication	4	3	0	1	0	0	0
(%)	50.00	37.50	0.00	12.50	0.00	0.00	0.00
ECEN 5103: Research Methodology & IPR	7	0	0	1	0	0	0
(%)	87.50	0.00	0.00	12.50	0.00	0.00	0.00
ECEN 5131: Wireless Ad Hoc & Sensor Networks	1	3	3	1	0	0	0
(%)	12.50	37.50	37.50	12.50	0.00	0.00	0.00
ECEN 5141: Satellite Communication & Applications	7	0	0	0	1	0	0
(%)	87.50	0.00	0.00	0.00	12.50	0.00	0.00
DIMA 5116: Disaster Management	2	3	2	0	1	0	0
(%)	25.00	37.50	25.00	0.00	12.50	0.00	0.00

Electronics & Communication Engineering (Lab)							
No. of students = 8							
Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
ECEN 5151: Antenna & Radiating Systems Lab	4	3	0	1	0	0	0
(%)	50.00	37.50	0.00	12.50	0.00	0.00	0.00
ECEN 5152: Wireless & Mobile Communication Lab	4	3	0	0	0	1	0
(%)	50.00	37.50	0.00	0.00	0.00	12.50	0.00

ECE-VLSI (Theory)							
No. of students = 3							
Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
VLSI 5101: Digital VLSI IC Design	0	2	0	0	0	1	0
(%)	0.00	66.67	0.00	0.00	0.00	33.33	0.00
VLSI 5102: Embedded Systems Design	1	1	1	0	0	0	0
(%)	33.33	33.33	33.33	0.00	0.00	0.00	0.00
ECEN 5103: Research Methodology & IPR	1	1	0	0	0	1	0
(%)	33.33	33.33	0.00	0.00	0.00	33.33	0.00
VLSI 5132: VLSI IC Fabrication	0	2	0	0	1	0	0
(%)	0.00	66.67	0.00	0.00	33.33	0.00	0.00
VLSI 5142: Modelling of VLSI Device	0	2	0	0	0	1	0
(%)	0.00	66.67	0.00	0.00	0.00	33.33	0.00
DIMA 5116: Disaster Management	0	1	1	0	0	1	0
(%)	0.00	33.33	33.33	0.00	0.00	33.33	0.00

ECE-VLSI (Lab)							
No. of students = 3							
Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
VLSI 5151: Digital VLSI IC Design Lab	2	0	0	0	0	0	1
(%)	66.67	0.00	0.00	0.00	0.00	0.00	33.33
VLSI 5152: Embedded Systems Design Lab	2	0	0	1	0	0	0
(%)	66.67	0.00	0.00	33.33	0.00	0.00	0.00

Biotechnology (Theory)							
No. of students = 16							
Paper Code & Percentage	O (>= 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
BIOT 5101:Advanced Genetic Engineering	1	11	4	0	0	0	0
(%)	6.25	68.75	25.00	0.00	0.00	0.00	0.00
BIOT 5102: Physicochemical Techniques in Biotechnology	0	8	5	2	1	0	0
(%)	0.00	50.00	31.25	12.50	6.25	0.00	0.00
BIOT 5103: Research Methodology, Bioethics & IPR	4	11	1	0	0	0	0
(%)	25.00	68.75	6.25	0.00	0.00	0.00	0.00
BIOT 5131: Advanced Enzyme Technology	9	7	0	0	0	0	0
(%)	56.25	43.75	0.00	0.00	0.00	0.00	0.00
BIOT 5141/42:Agricultural Biotechnology/ Advanced Environmental Biotechnology	4	11	1	0	0	0	0
(%)	25.00	68.75	6.25	0.00	0.00	0.00	0.00
DIMA 5116: Disaster Management	11	5	0	0	0	0	0
(%)	68.75	31.25	0.00	0.00	0.00	0.00	0.00

Biotechnology (Lab)							
No. of students = 16							
Paper Code & Percentage	O (>= 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
BIOT 5151: Advanced Genetic Engineering Lab	1	3	8	3	1	0	0
(%)	6.25	18.75	50.00	18.75	6.25	0.00	0.00
BIOT 5152 :Physicochemical Techniques Lab	5	7	3	1	0	0	0
(%)	31.25	43.75	18.75	6.25	0.00	0.00	0.00

Applied Electronics & Instrumentation Engineering (Theory)							
No. of students = 8							
Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
AEIE 5101 :Advanced Digital Signals and Systems	3	1	3	0	1	0	0
(%)	37.50	12.50	37.50	0.00	12.50	0.00	0.00
AEIE 5102:Programming Language for Embedded IoT Systems	5	1	0	1	1	0	0
(%)	62.50	12.50	0.00	12.50	12.50	0.00	0.00
AEIE 5103:Research Methodology & IPR	3	4	0	1	0	0	0
(%)	37.50	50.00	0.00	12.50	0.00	0.00	0.00
AEIE 5132:Medical Instrumentation	3	0	3	1	1	0	0
(%)	37.50	0.00	37.50	12.50	12.50	0.00	0.00
AEIE 5141:Mechatronics	1	3	2	1	1	0	0
(%)	12.50	37.50	25.00	12.50	12.50	0.00	0.00
DIMA 5116: Disaster Management	3	2	1	0	2	0	0
(%)	37.50	25.00	12.50	0.00	25.00	0.00	0.00

Applied Electronics & Instrumentation Engineering (Lab)							
No. of students = 8							
Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
AEIE 5151: Digital Signals Processing Lab	3	3	0	1	0	0	1
(%)	37.50	37.50	0.00	12.50	0.00	0.00	12.50
AEIE 5152: Programming Language Lab	6	0	0	1	0	0	1
(%)	75.00	0.00	0.00	12.50	0.00	0.00	12.50

Renewable Energy (Theory)							
No. of students = 4							
Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
REEN 5101:Renewable Energy Resource and Characteristics	0	0	4	0	0	0	0
(%)	0.00	0.00	100.00	0.00	0.00	0.00	0.00
REEN 5102:Non-Solar Renewable Energy	0	3	1	0	0	0	0
(%)	0.00	75.00	25.00	0.00	0.00	0.00	0.00
REEN 5103:Research Methodology and IPR	2	2	0	0	0	0	0
(%)	50.00	50.00	0.00	0.00	0.00	0.00	0.00
REEN 5141:Material for Renewable Energy Application	0	1	3	0	0	0	0
(%)	0.00	25.00	75.00	0.00	0.00	0.00	0.00
REEN 5144: Thermal and Electrical Energy Fundamentals	0	0	2	2	0	0	0
(%)	0.00	0.00	50.00	50.00	0.00	0.00	0.00
DIMA 5116: Disaster Management	3	1	0	0	0	0	0
(%)	75.00	25.00	0.00	0.00	0.00	0.00	0.00

Renewable Energy (Lab)							
No. of students = 4							
Paper Code & Percentage	O (≥ 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
REEN 5151:Measurement Analysis Lab	0	3	1	0	0	0	0
(%)	0.00	75.00	25.00	0.00	0.00	0.00	0.00
REEN 5152:Power Lab	2	0	2	0	0	0	0
(%)	50.00	0.00	50.00	0.00	0.00	0.00	0.00

RESULT ANALYSIS - ODD SEM, 2020
1ST YEAR –MCA

Master in Computer Applications (Theory)							
No. of students = 57							
Paper Code & Percentage	O (>= 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
HMTS 1102: Oral and Written Communications	0	3	50	3	1	0	0
(%)	0.00	5.26	87.72	5.26	1.75	0.00	0.00
MCAP 1101: Object Oriented Programming with Java	0	17	27	11	2	0	0
(%)	0.00	29.82	47.37	19.30	3.51	0.00	0.00
MCAP 1102: Programming with Python	7	35	11	4	0	0	0
(%)	12.28	61.40	19.30	7.02	0.00	0.00	0.00
MCAP 1103: Artificial Intelligence	7	35	14	1	0	0	0
(%)	12.28	61.40	24.56	1.75	0.00	0.00	0.00
MATH 1102: Mathematical Foundation	2	26	28	1	0	0	0
(%)	3.51	45.61	49.12	1.75	0.00	0.00	0.00

Master in Computer Applications (Lab)							
No. of students = 57							
Paper Code & Percentage	O (>= 90)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
MCAP 1111: Java Programming Lab	12	40	4	1	0	0	0
(%)	21.05	70.18	7.02	1.75	0.00	0.00	0.00
MCAP 1112: Python Programming Lab	11	14	32	0	0	0	0
(%)	19.30	24.56	56.14	0.00	0.00	0.00	0.00
HMTS 1112: Communications Lab	1	24	26	6	0	0	0
(%)	1.75	42.11	45.61	10.53	0.00	0.00	0.00



HERITAGE INSTITUTE OF TECHNOLOGY

RESULT OF B.TECH, MCA 3rd SEMESTER EXAMINATIONS, 2020-21

Placed for

Approval of
Academic Council

In its meeting dated 12.08.2021

PC
Principal
Heritage Institute of Technology

1

Prayak
Controller of Examinations
Heritage Institute of Technology

COMPUTER SCIENCE & ENGINEERING

Number of Students: 216

Theory Papers

PAPER CODE	O (>89)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
HMTS 2001 (Human Values & Professional Ethics)	13	62	104	34	3	0	0
%	6.02	28.70	48.15	15.74	1.39	0.00	0.00
MATH 2111 (Probability & Statistical Methods)	5	112	77	15	3	2	2
%	2.31	51.85	35.65	6.94	1.39	0.93	0.93
ECEN 2101 (Analog Circuits)	104	85	16	8	2	0	1
%	48.15	39.35	7.41	3.70	0.93	0.00	0.46
ECEN 2104 (Digital Logic)	125	82	5	2	0	0	2
%	57.87	37.96	2.31	0.93	0.00	0.00	0.93
CSEN 2101 (Data Structure & Algorithms)	117	76	17	4	2	0	0
%	54.17	35.19	7.87	1.85	0.93	0.00	0.00
CSEN 2102 (Discrete Mathematics)	137	67	8	1	2	1	0
%	63.43	31.02	3.70	0.46	0.93	0.46	0.00

Lab Papers

PAPER CODE	O (>89)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
ECEN 2154 (Digital Logic Lab)	132	56	24	1	1	0	2
%	61.11	25.93	11.11	0.46	0.46	0.00	0.93
CSEN 2151 (Data Structure & Algorithms Lab)	140	39	18	12	4	1	2
%	64.81	18.06	8.33	5.56	1.85	0.46	0.93
CSEN 2152 (Software Tools Lab)	105	61	15	13	16	2	4
%	48.61	28.24	6.94	6.02	7.41	0.93	1.85

INFORMATION TECHNOLOGY
Number of Students: 69

Theory Papers

PAPER CODE	O (>89)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
HMTS 2001 (Human Values & Professional Ethics)	4	59	3	2	0	0	1
%	5.80	85.51	4.35	2.90	0.00	0.00	1.45
EVSC 2016 (Environmental Sciences)	2	13	30	17	6	1	0
%	2.90	18.84	43.48	24.64	8.70	1.45	0.00
CSEN 2102 (Discrete Mathematics)	42	21	2	2	1	0	1
%	60.87	30.43	2.90	2.90	1.45	0.00	1.45
ECEN 2101 (Analog Circuits)	8	57	3	1	0	0	0
%	11.59	82.61	4.35	1.45	0.00	0.00	0.00
ECEN 2002 (Digital Systems Design)	39	24	5	1	0	0	0
%	56.52	34.78	7.25	1.45	0.00	0.00	0.00
INFO 2101 (Fundamentals of Data Structure & Algorithms)	18	30	16	4	1	0	0
%	26.09	43.48	23.19	5.80	1.45	0.00	0.00
INFO 2111 (Information Theory & Coding)	38	24	5	0	1	1	0
%	55.07	34.78	7.25	0.00	1.45	1.45	0.00

Lab Papers

PAPER CODE	O (>89)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
ECEN 2151 (Analog Circuits Lab)	49	10	5	1	1	0	3
%	71.01	14.49	7.25	1.45	1.45	0.00	4.35
ECEN 2052 (Digital Systems Design Lab)	25	41	1	0	0	0	2
%	36.23	59.42	1.45	0.00	0.00	0.00	2.90
INFO 2151 (Fundamentals of Data Structure & Algorithms Lab)	30	13	12	6	5	2	1
%	43.48	18.84	17.39	8.70	7.25	2.90	1.45

ELECTRONICS & COMMUNICATION ENGINEERING
Number of Students: 210

Theory Papers

PAPER CODE	O (>89)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
HMTS 2001 (Human Values & Professional Ethics)	10	88	79	28	4	0	1
%	4.76	41.90	37.62	13.33	1.90	0.00	0.48
MATH 2001 (Mathematical Methods)	5	84	93	24	2	0	2
%	2.38	40.00	44.29	11.43	0.95	0.00	0.95
CSEN 2004 (Data Structure and Basic Algorithms)	39	114	47	5	2	1	2
%	18.57	54.29	22.38	2.38	0.95	0.48	0.95
ECEN 2101 (Analog Circuits)	71	95	36	6	1	0	1
%	33.81	45.24	17.14	2.86	0.48	0.00	0.48
ECEN 2102 (Circuit and Network Theory)	144	47	12	5	2	0	0
%	68.57	22.38	5.71	2.38	0.95	0.00	0.00
ECEN 2103 (Signals & Systems)	37	102	67	2	2	0	0
%	17.62	48.57	31.90	0.95	0.95	0.00	0.00

Lab Papers

PAPER CODE	O (>89)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
ECEN 2151 (Analog Circuits Lab)	102	79	19	3	1	0	6
%	48.57	37.62	9.05	1.43	0.48	0.00	2.86
ECEN 2152 (Circuit and Network Theory Lab)	104	72	23	4	2	0	5
%	49.52	34.29	10.95	1.90	0.95	0.00	2.38
ECEN 2153 (Signals & Systems Lab)	111	80	7	2	3	2	5
%	52.86	38.10	3.33	0.95	1.43	0.95	2.38
CSEN 2054 (Data Structure and Basic Algorithms Lab)	62	110	22	9	0	3	4
%	29.52	52.38	10.48	4.29	0.00	1.43	1.90

BIOTECHNOLOGY
Number of Students: 59

Theory Papers

PAPER CODE	O (>89)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
HMTS 2001 (Human Values & Professional Ethics)	0	3	26	30	0	0	0
%	0.00	5.08	44.07	50.85	0.00	0.00	0.00
EVSC 2016 (Environmental Sciences)	20	22	4	7	2	0	4
%	33.90	37.29	6.78	11.86	3.39	0.00	6.78
MATH 2101 (Mathematical & Statistical Methods)	41	9	5	4	0	0	0
%	69.49	15.25	8.47	6.78	0.00	0.00	0.00
BIOT 2101 (Chemistry of Biomolecules)	11	27	10	11	0	0	0
%	18.64	45.76	16.95	18.64	0.00	0.00	0.00
BIOT 2102 (Industrial Stoichiometry)	58	0	0	0	0	0	1
%	98.31	0.00	0.00	0.00	0.00	0.00	1.69
BIOT 2103 (Biochemistry)	4	45	6	4	0	0	0
%	6.78	76.27	10.17	6.78	0.00	0.00	0.00
BIOT 2104 (Microbiology)	22	30	7	0	0	0	0
%	37.29	50.85	11.86	0.00	0.00	0.00	0.00

Lab Papers

PAPER CODE	O (>89)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
BIOT 2151 (Biomolecular Chemistry Lab)	47	11	0	1	0	0	0
%	79.66	18.64	0.00	1.69	0.00	0.00	0.00
BIOT 2153 (Biochemistry Lab)	24	32	2	0	0	1	0
%	40.68	54.24	3.39	0.00	0.00	1.69	0.00
BIOT 2154 (Microbiology Lab)	24	23	11	1	0	0	0
%	40.68	38.98	18.64	1.69	0.00	0.00	0.00

APPLIED ELECTRONICS & INSTRUMENTATION ENGINEERING

Number of Students: 53

Theory Papers

PAPER CODE	O (>89)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
HMTS 2001 (Human Values & Professional Ethics)	0	10	23	16	4	0	0
%	0.00	18.87	43.40	30.19	7.55	0.00	0.00
MATH 2001 (Mathematical Methods)	0	6	33	13	1	0	0
%	0.00	11.32	62.26	24.53	1.89	0.00	0.00
AEIE 2101 (Analog Electronic Circuits)	13	25	11	3	1	0	0
%	24.53	47.17	20.75	5.66	1.89	0.00	0.00
AEIE 2102 (Sensors & Transducers)	1	25	19	8	0	0	0
%	1.89	47.17	35.85	15.09	0.00	0.00	0.00
AEIE 2103 (Circuit Theory & Network Analysis)	35	13	1	1	0	0	3
%	66.04	24.53	1.89	1.89	0.00	0.00	5.66
AEIE 2111 (Material Science & Technology)	32	16	2	2	1	0	0
%	60.38	30.19	3.77	3.77	1.89	0.00	0.00

Lab Papers

PAPER CODE	O (>89)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
AEIE 2151 (Analog Electronics Lab)	33	17	0	2	1	0	0
%	62.26	32.08	0.00	3.77	1.89	0.00	0.00
AEIE 2152 (Sensors & Transducers Lab)	18	27	3	4	1	0	0
%	33.96	50.94	5.66	7.55	1.89	0.00	0.00
AEIE 2153 (Circuits & Networks Lab)	36	16	1	0	0	0	0
%	67.92	30.19	1.89	0.00	0.00	0.00	0.00

CHEMICAL ENGINEERING
Number of Students: 56

Theory Papers

PAPER CODE	O (>89)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
PHYS 2111 (Physics II)	10	23	13	5	4	0	1
%	17.86	41.07	23.21	8.93	7.14	0.00	1.79
BIOT 2105 (Biology)	16	30	9	1	0	0	0
%	28.57	53.57	16.07	1.79	0.00	0.00	0.00
MECH 2106 (Mechanics for Engineers)	32	18	6	0	0	0	0
%	57.14	32.14	10.71	0.00	0.00	0.00	0.00
CHEN 2101 (Particle & Fluid Particle Processing)	17	26	10	3	0	0	0
%	30.36	46.43	17.86	5.36	0.00	0.00	0.00
CHEN 2102 (Chemical Engineering Fluid Mechanics)	2	37	13	3	0	1	0
%	3.57	66.07	23.21	5.36	0.00	1.79	0.00
CHEN 2103 (Basics of Material & Energy Balance)	19	24	10	2	0	1	0
%	33.93	42.86	17.86	3.57	0.00	1.79	0.00
CHEN 2104 (Thermodynamics – I)	4	30	16	5	1	0	0
%	7.14	53.57	28.57	8.93	1.79	0.00	0.00

Lab Papers

PAPER CODE	O (>89)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
CHEN 2151 (Fluid Mechanics (ChE) Lab)	12	25	13	3	1	1	1
%	21.43	44.64	23.21	5.36	1.79	1.79	1.79
CHEN 2152 (Particle & Fluid Particle Processing Lab)	12	37	3	2	1	0	1
%	21.43	66.07	5.36	3.57	1.79	0.00	1.79
CHEN 2153 (Instrumental Methods of Analysis Lab)	29	19	7	0	0	0	1
%	51.79	33.93	12.50	0.00	0.00	0.00	1.79

MECHANICAL ENGINEERING
Number of Students: 124

Theory Papers

PAPER CODE	O (>89)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
HMTS 2001 (Human Values & Professional Ethics)	6	41	55	21	0	1	0
%	4.84	33.06	44.35	16.94	0.00	0.81	0.00
EVSC 2016 (Environmental Sciences)	6	36	43	13	15	10	1
%	4.84	29.03	34.68	10.48	12.10	8.06	0.81
MATH 2001 (Mathematical Methods)	2	22	88	12	0	0	0
%	1.61	17.74	70.97	9.68	0.00	0.00	0.00
PHYS 2101 (Physics – II)	31	28	32	18	10	0	5
%	25.00	22.58	25.81	14.52	8.06	0.00	4.03
BIOT 2105 (Biology)	66	47	10	1	0	0	0
%	53.23	37.90	8.06	0.81	0.00	0.00	0.00
MECH 2101 (Engineering Mechanics)	56	65	2	1	0	0	0
%	45.16	52.42	1.61	0.81	0.00	0.00	0.00
MECH 2102 (Fluid Mechanics & Hydraulics)	30	71	19	4	0	0	0
%	24.19	57.26	15.32	3.23	0.00	0.00	0.00

Lab Papers

PAPER CODE	O (>89)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
MECH 2156 (Machine Drawing I)	25	45	30	14	6	3	1
%	20.16	36.29	24.19	11.29	4.84	2.42	0.81
MECH 2157 (Workshop Practice II)	17	58	35	10	3	1	0
%	13.71	46.77	28.23	8.06	2.42	0.81	0.00

CIVIL ENGINEERING
Number of Students: 126

Theory Papers

PAPER CODE	O (>89)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
EVSC 2016 (Environmental Sciences)	9	27	55	21	13	1	0
%	7.14	21.43	43.65	16.67	10.32	0.79	0.00
BIOT 2105 (Biology)	9	38	56	19	0	1	3
%	7.14	30.16	44.44	15.08	0.00	0.79	2.38
CIVL 2101 (Fundamentals of Strength of Materials)	65	36	15	8	2	0	0
%	51.59	28.57	11.90	6.35	1.59	0.00	0.00
CIVL 2102 (Soil Mechanics – I)	3	35	43	18	19	8	0
%	2.38	27.78	34.13	14.29	15.08	6.35	0.00
CIVL 2103 (Construction Materials and Technology)	5	80	32	1	0	0	8
%	3.97	63.49	25.40	0.79	0.00	0.00	6.35
CIVL 2113 (Fluid Mechanics)	53	58	12	0	0	0	3
%	42.06	46.03	9.52	0.00	0.00	0.00	2.38

Lab Papers

PAPER CODE	O (>89)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
CIVL 2151 (Strength of Materials Lab)	51	29	21	9	5	6	5
%	40.48	23.02	16.67	7.14	3.97	4.76	3.97
CIVL 2152 (Soil Mechanics Lab – I)	27	47	30	11	11	0	0
%	21.43	37.30	23.81	8.73	8.73	0.00	0.00
CIVL 2153 (Construction Materials Lab)	35	64	18	5	0	1	3
%	27.78	50.79	14.29	3.97	0.00	0.79	2.38
CIVL 2154 (Building Planning and Drawing)	35	81	8	0	0	0	2
%	27.78	64.29	6.35	0.00	0.00	0.00	1.59
CIVL 2163 (Fluid Mechanics Lab)	40	49	23	7	4	0	3
%	31.75	38.89	18.25	5.56	3.17	0.00	2.38

ELECTRICAL ENGINEERING
Number of Students: 59

Theory Papers

PAPER CODE	O (>89)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
HMTS 2001 (Human Values & Professional Ethics)	0	2	36	17	4	0	0
%	0.00	3.39	61.02	28.81	6.78	0.00	0.00
BIOT 2105 (Biology)	27	30	2	0	0	0	0
%	45.76	50.85	3.39	0.00	0.00	0.00	0.00
MECH 2106 (Mechanics for Engineers)	6	32	17	2	2	0	0
%	10.17	54.24	28.81	3.39	3.39	0.00	0.00
ELEC 2101 (Circuit Theory)	20	32	4	3	0	0	0
%	33.90	54.24	6.78	5.08	0.00	0.00	0.00
ELEC 2102 (Analog & Digital Electronics)	5	37	8	8	1	0	0
%	8.47	62.71	13.56	13.56	1.69	0.00	0.00
ELEC 2103 (Electrical & Electronic Measurement)	4	33	11	7	3	0	1
%	6.78	55.93	18.64	11.86	5.08	0.00	1.69

Lab Papers

PAPER CODE	O (>89)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
ELEC 2151 (Circuit Theory Lab)	10	18	22	8	0	1	0
%	16.95	30.51	37.29	13.56	0.00	1.69	0.00
ELEC 2152 (Analog & Digital Electronics Lab)	6	24	16	12	0	0	1
%	10.17	40.68	27.12	20.34	0.00	0.00	1.69
ELEC 2153 (Electrical & Electronic Measurement Lab)	2	30	21	3	2	0	1
%	3.39	50.85	35.59	5.08	3.39	0.00	1.69

MASTER OF COMPUTER APPLICATIONS
Number of Students: 54

Theory Papers

PAPER CODE	O (>89)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
MCAP 2101 (Object Oriented Programming with Java)	3	22	18	6	4	1	0
%	5.56	40.74	33.33	11.11	7.41	1.85	0.00
MCAP 2102 (Database Management Systems II)	37	8	4	4	1	0	0
%	68.52	14.81	7.41	7.41	1.85	0.00	0.00
MCAP 2103 (Operating Systems)	28	12	9	2	3	0	0
%	51.85	22.22	16.67	3.70	5.56	0.00	0.00
MCAP 2104 (Design and Analysis of Algorithms)	16	28	6	3	0	1	0
%	29.63	51.85	11.11	5.56	0.00	1.85	0.00
MCAP 2105 (Optimization Techniques)	4	22	17	6	4	1	0
%	7.41	40.74	31.48	11.11	7.41	1.85	0.00

Lab Papers

PAPER CODE	O (>89)	E (80-89)	A (70-79)	B (60-69)	C (50-59)	D (40-49)	F (<40)
MCAP 2111 (Object Oriented Programming Lab)	12	17	15	8	2	0	0
%	22.22	31.48	27.78	14.81	3.70	0.00	0.00
MCAP 2112 (DBMS II Lab)	14	17	18	3	2	0	0
%	25.93	31.48	33.33	5.56	3.70	0.00	0.00