Media Centre

Media Centre

Media Centre has been established on 18-03-2015 to cater the needs of e-content development, graphical design work and news coverage. It is headed by a Centre Head and consists of a **team of 7 members which** include photographer*, Videographer, one video editor, two graphics designers and two content developers* for the development of e-content with the state of art photo and video cameras along with the necessary video editing software.

In 2015, 52 smart boards were installed at various class rooms and used to project the e-content effectively in class rooms with good audio and ICT enabled system. Media Centre has developed more than 1000 hours of video content from the last 5 years for all undergraduate courses. Along with this, it has also recorded all the events happening within the campus including Convocations, Important National day events, cultural festivals, Conferences and workshops and edited videos are preserved in hard disks.

Due to the recent Covid-19 pandemic situation, we have completely shifted to online classes and in this process we have established a quick ad-hoc based 32 e-recording facilities with webcam and audio recording at all the departments of the university for lecture capturing system. Along with this we have established 5 state of art of lecture capturing systems with Smart boards and cameras for e-content recording. Recently we have added another 5 state of art technology light boards, for delivering the theoretical subject video lectures with an equivalent class room teaching.

Apart from the e-content development, media centre provides the graphical designs for brochures, study materials, various festival flexi designs and the news coverage about the university both in print and electronic media.

The details of the hardware and software components available at the media centre are as follows:

Hardware equipment List

Sl No	Equipment	Quantity	Remarks
1	SONY PXW-Z150 VIDEO CAMERA	1	
2	NIKON D750 DSLR 24-120 4G LENS	1	
3	NIKON 7100 OLD PHOTO CAMERA	1	
4	SONY HANDY CAMERA	1	
5	SIMPLEX TRIPOD 650	1	
6	SIMPLEX VIDEO LIGHT	1	
7	NIKON D750 BATTERY	1	
8	SSONY Z150 BATTERY	1	
9	GODEX FLASH	1	
10	SANDISK SD CARDS 64GB WITH 150 MBPS	4	
11	LIGHT STAND BAG	1	
12	FLASH BATTERYS with Charger	4	
13	SIMPLEX LED LIGHT	1	

14	LIGHT STANDS	42	
15	CARD READERS	6	
16	HARD DISKS WITH 4TB STORAGE CAPACITY	8	
17	HARD DISKS WITH 3TB STORAGE CAPACITY	1	
18	SMART TV BOARDS	4	State of art Smart Boards with touch screen including Widows based OS to run videos or PPTs
19	LIGHT BOARDS	10	State of art of light boards for teaching theoretical subjects
20	PANASONIC HANDY CAMERA	11	
21	LED LIGHTS	40	
22	EXTERNAL 4TB HARD DISKS	9	
23	WIRELESS MIKES	2	
24	MEMORY CARDS 64GB CAPACITY	9	

Video Editing Software List

Sl No	Software Name
1	EDIUS
2	ADOBE PREMIERE
3	AFTER EFX
4	PRO SHOW MAKER
5	CAMTATIA

Graphical Design Software List:

Sl No	Software Name
1	ADOBE PHOTOSHOP
2	PAGE MAKER
3	ABODE IN DESIGN
4	COREL DRAW
5	ABODE ILLUSTRATOR
6	MS OFFICE

Details of the Video Lectures Recorded in the last 5 academic years

We have been constantly improving the quality of the teaching–learning by video recordings with some animations as well as more informative. These recordings are helping the slow learners and backlog students. In the last 5 years, we have more than 1000 hours of video lectures captured and made available to students as a supplementary along with other e-content like lecture notes and power point presentations. The following is the list of the video lectures captured during the last 5 academic Years

Sl No	Academic Year	Number of Hours of Video content available
1	2015-16	55
2	2016-17	148
3	2017-18	216
4	2018-19	284
5	2019-20	328
	Total Hours	**1031**

In the current academic year (2020-21), more than 2000 hours of videorecording is completed and another 2000 hours of lecture recording is planned.

The following is the details of the video recordings subject wise.

Sl No	Subject Name	Number of Hours of Video content available (In last 5 years)	Number of Hours of video content developed in the current academic year (2020-21)
1	Mathmatics	10	20
2	Physics	10	20
3	Chemistry	10	20
4	Technical English	8	20
5	Manufacturing Technology	8	20
6	Materials Science & Metallurgy	9	20
7	Engineering Thermodynamics	8	20

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8	Mechanisms & Machines	9	20
9	Design of Machine Elements	8	20
10	Dynamics of Machines	8	20
11	CAD/CAM	10	20
12	Thermal Turbo Machinery	9	20
13	Tribology	10	20
14	Additive Manufacturing	6	20
15	Reverse Engineering	9	20
16	Advances in Robotics	7	20
17	Industrial Engineering and Production Management	8	20
18	Operations Research	8	20
19	Refrigeration & Air Conditioning	6	20
20	Environmental Science and Technology	7	20
21	Fracture Mechanics	8	20
22	Non - Destructive Testing For Mechanical Engineers	8	20
23	Product Life Cycle Management	9	20
24	Artificial Intelligence in Robotics	8	20
25	Experimental Stress Analysis	9	20
26	Linear Systems and Signal Analysis	8	20
27	Electrical Ciruit Analysis	8	20
28	Electromagnetic Fields	10	20
29	Digital Electronic Circuits	9	20
30	Analog Electronics	10	20
31	Control Systems	6	20
32	Electrical Power Transmission and Distribution	9	20
33	Electrical Measurements and Instrumentation	7	20
34	Transformers and Induction motors	8	20
35	Department Electrive(PE stream)-III Analysis of Inverters	8	20
36	Department Electrive(AE stream)-III Utilization of Electrical Energy	6	20
37	Electric Drives	7	20
38	Power System Operation and Control	10	20
39	Principles of Digital signal Processsing	6	20
40	AI Techniques in Electrical Engineering	9	20
41	Department Electrive(PE stream)-III	7	20

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42	SMPS based converters	8	20
43	Department Electrive(AE stream)-III Energy Audit, Conservation and Management	8	20
44	Basic Electrical and Electronics Engineering	9	20
45	Basic Engineering Products	7	20
46	Electrical Machines and Power Utilization	8	20
47	Open Elective(SPVT-II)	8	20
48	Open Elective(Solar Thermal Systems)	6	20
49	Chemical Process Calculations	0	10
50	Mechanical Unit Operations	0	10
51	Process Heat Transfer	0	10
52	Chemical Engineering Thermo Dynamics-II	0	10
53	Mass Transfer Operations-I	0	10
54	Chemical Reaction Engineering-I	0	10
55	Process Dynamics & Control	0	10
56	Solid Waste Management & Treatment	0	10
57	Non Conventional Energy Sources	0	10
58	Chemical Engineering Plant Design and Economics	0	10
59	Chemical Process Equipment Design	0	10
60	Optimization of Chemical Processes	0	10
61	Transport Phenomena	0	10
62	Industrial Safety and Hazard Analysis	0	10
63	Food Chemistry and Toxicology	0	10
64	Food Microbiology	0	10
65	Fundamentals of Fluid Mechanics	0	10
66	Thermo Dynamics & Heat Engines	0	10
67	Bakery Confectionary Technology	0	10
68	Cereals, Legumes and Oilseeds Process Technology	0	10
69	Fruits and Vegetables Processing	0	10
70	Nutraceuticals and Functional Foods	0	10
71	Maintenance of Food Equipments	0	10
72	Food Toxicology and Agrochemical Resides	0	10
73	Beverage Technology	0	10
74	Food Process Equipment Design	0	10
75	Meat, Fish and Poultry Process Technology	0	10

76	Spices and Plantation Crops Process Technology	0	10
77	Post Harvest Management of Fruits and Vegetables	0	10
78	Risk Analysis in Food Safety	0	10
79	Technology of Manufactured Fibers	0	10
80	Yarn Manufacturing	0	10
81	Fabric Manufacturing	0	10
82	Fashion Theory	0	10
83	Testing of Fibres and Yarns	0	10
84	Apparel Production, Planning and Control	0	10
85	Garment Dyeing, Printing and Embroidery	0	10
86	Textile Mathematics	0	10
87	Circular Knitting	0	10
88	Dyeing and Printing Machinery	0	10
89	Clothing Comfort	0	10
90	Industrial Engineering for Textiles and Apparels	0	10
91	Apparel Costing and Export Documentation	0	10
92	Technical Textiles	0	10
93	Men, Women, Children Wear Construction Lab	0	10
94	Mechanics of Weaving Machines	0	10
95	Functional Finishes	0	10
96	Petroleum Geology	0	10
97	Fundamentals of Geology	0	10
98	Process Dynamics & Control	0	10
99	Drilling Technology	0	10
100	Process Instrumentation	0	10
101	Well logging and Formation Evaluation	0	10
102	Advanced Natural Gas Engineering	0	10
103	Health, Safety and Environment Engineering	0	10
104	Petroleum Engineering Equipment Design	0	10
105	Petroleum Reservoir Engineering - II	0	10
106	Enhanced Oil Recovery Methods	0	10
107	Natural Gas Processing	0	10
108	Biochemistry	8	20
109	Cell and Molecular Biology	9	20
110	Microbiology	7	20
111	Unit operations	8	20

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112	Biochemical Reaction Engineering	9	20
113	Biosensors	10	20
114	Enzyme Technology	7	20
115	Industrial Biotechnology	6	20
116	Agricultural Biotechnology DE (Plant)	8	20
117	Tissue Engineering and Regenerative Medicine (DE (Animal))	9	20
118	Fermentation Products (DE (Microbial))	8	20
119	Plant Biotechnology (OE)	10	20
120	Nanobiotechnology	7	20
121	Bioinformatics	6	20
122	Downstream Processing	8	20
123	Genomics and Proteomics	9	20
124	Immunology and Immunoinformatics	8	20
125	Transgenic Plants (DE (Plant))	7	20
126	Drug Toxicity and Evaluation (DE (Animal))	8	20
127	Metabolomics and Metabolic Engineering (DE (Microbial))	9	20
128	Nano Technology in Agricultural and Food industries (OE (Biotech))	7	20
129	Molecular genetics	0	20
130	Molecular Phylogenetics	0	20
131	Molecular Modeling (DE (Drugs))	0	20
132	Next Generation Sequencing and Analysis (DE (Genome))	0	20
133	Comparative Genomics (OE (Bioinformatics))	0	20
134	Structural Bioinformatics	0	20
135	Biomedical Informatics	0	20
136	Drug Design (DE (Drugs))	0	20
137	Metagenomics (DE (Genome))	0	20
138	Molecular Modeling and Drug Design (OE (Bioinformatics))	0	20
139	DSD	8	20
140	Signals and Systems	6	20
141	Electronics Design and Circuits	8	20
142	Linear Integrated Circuits and Applications	8	20
143	Micro Processors and Micro Controllers	9	20
144	Digital Communications	8	20

145	Electromagnetics and Transmission Lines	10	20
146	Television Engineering	6	20
147	Perl & Python	4	20
148	MCES(DE)	7	20
149	ESRTOS	5	20
150	OC	7	20
151	MWRE	9	20
152	EI	6	20
153	CN	8	20
154	DIP	8	20
155	DIoT	4	20
156	SoC	6	20
157	SC	10	20
158	ASN	5	20
159	CMC	5	20
160	Embedded Systems	3	20
161	Mobile Communications	4	20
162	BCS	0	10
163	AEC	0	10
164	ECT	0	10
165	ADC	0	10
166	BCS	0	10
167	BMI	0	10
168	AD	0	10
169	FMCS	0	10
170	BMI(OE)	0	10
171	DTE-2	0	10
172	MIP	0	10
173	RE	0	10
174	TM	0	10
175	MIT (OE)	0	10
176	Strength of Materials	0	10
177	Fluid Mechanics	0	10
178	Building Materials and Concrete Technology	0	10
179	Surveying and Geomatics	0	10
180	Environmental Engineering – II	0	10
181	Geotechnical Engineering – I	0	10
182	Structural Analysis – II	0	10
183	Transportation Engineering – I	0	10
184	Water Resources Engineering - I	0	10

185	Department Elective-1 (Structural Dynamics)	0	10
186	Department Elective-2 (Construction Project Management)	0	10
187	Open Elective (Environmental Pollution and Control)	0	10
188	Design of Steel Structures	0	10
189	Engineering Geology	0	10
190	Estimation and Costing	0	10
191	Department Elective (Seismic Evaluation and Retrofitting of Structures)	0	10
192	Other Elective (Environmental Impact Assessment)	0	10
193	Programming for Problem Soving	5	20
194	Basics of Computers and internet	7	20
195	Computer Programming & Data Structures	9	20
196	OOPs through JAVA	6	20
197	Data Structure	8	20
198	Data base management system	8	20
199	Digital Logic Design	9	20
200	Software Engineering	6	20
201	Web Technologies	9	20
202	compiler design	7	20
203	Operating Systems	9	20
204	Open Systems for Web Technologies	6	20
205	Fundamentals Of Image Processing	9	20
206	Distributed systems	8	20
207	R Programming	7	20
208	Search Engines	6	20
209	Information Security	5	20
210	Mobile Communications	9	20
211	Pattern Recognition	9	20
212	Emerging Technology	6	20
213	Big Data & Analytics	8	20
214	DSUP	8	20
215	Python programming	7	20
216	POAG	0	10
217	S&L	0	10
218	TOM	0	10
219	MAC	0	10
220	AC	0	10

221	FM&HM	0	10
222	ATICE	0	10
223	WHY	0	10
224	AMT	0	10
225	TTW	0	10
226	MD	0	10
227	DSE	0	10
228	CPE	0	10
229	TSC	0	10
230	AEC	0	10
231	FME-II	0	10
232	Probability and Statistics	1	20
233	Data Structures	8	20
234	Digital Logic Design	9	20
235	Database Management Systems	6	20
236	OOPs through JAVA	5	20
237	Software Engineering	8	20
238	Design and Analysis of Algorithms	7	20
239	Formal Languages and Automata Theory	6	20
240	Operating Systems	8	20
241	Open Systems for Web Technologies	7	20
242	R Programming(Open Elective)	9	20
243	Cloud Computing	9	20
244	Information Security	5	20
245	Big Data Analytics	8	20
246	Mobile Application Development	9	20
247	Internet of Things	9	20
248	Data Science using Python(Open Elective)	5	20
249	Principles of Management and Organizational Behavior	0	20
250	Accounting for Managers	0	20
251	Business Statistics	0	20
252	Business Economics	0	20
253	Business Environment & Ethics	0	20
254	Essential Skills For Managers	0	20
255	Legal Environment and business	0	20
256	Entrepreneurship & Business Plan	0	20
257	Supply Chain Management	0	20
258	Industrial Relations and Labour Laws	0	20
259	Marketing Research	0	20

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260	Talent Management&Succession planning	0	20
261	Investment Analysis and portfolio Management	0	20
262	International Financial Management	0	20
263	Sales and Distribution	0	20
264	Corporate Strategy	0	20
265	Introduction to Business Analytics	0	20
266	Managerial Economics (III B.Tech)	5	20
267	PMOB (II B.Tech)	4	20
268	Engineering Entrepreneurship (IV B.Tech)	6	20
269	Management Science (IV B.Tech)	4	20
270	Entrepreneurship Development and Business (II AG)	4	20
271	Agricultural Business Management	4	20
272	Business Mathematics	0	10
273	Micro Economics	0	10
274	Financial Accounting	0	10
275	Business Communication-I	0	10
276	Public Administration	0	10
277	Business Research Methods	0	10
278	Management Accounting	0	10
279	Business Environment	0	10
280	Indian Banking & Insurance	0	10
281	Business Law	0	10
282	Business Ethics & Corporate Governance	0	10
283	Industrial Relations and Labour Laws	0	10
284	Entrepreneurship development	0	10
285	GST	0	10
286	Strategic Management	0	10
287	Organizational Behaviour	0	10
288	Talent Management&Succession planning	0	10
289	Investment Analysis and portfolio Management	0	10
290	International Financial Management	0	10
291	Sales and Distribution	0	10
292	Pharm. Organic Chemistry-II	0	10
293	Physical Pharmaceutics-1	0	10
294	Pharm. Microbiology	0	10

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295	Pharm. Engineering	0	10
296	Medicinal Chemistry-2	0	10
297	Industrial Pharmacy-1	0	10
298	Pharmacology-2	0	10
299	Pharmacognosy& Phytochemistry-2	0	10
300	Pharm. Jurisprudence	0	10
	Total	**1031**	**4650**