

## Annexure-10 Mandatory Disclosures

<b>1</b>	<b>NAME AND ADDRESS OF THE INSTITUTE</b>				
Name of the Institution	:	<b>Technology Education &amp; Research Institution</b>			
Institution Code	:	<b>1-15892424</b>			
Address of the Institution	:	<b>9<sup>TH</sup> MILESTONE, KAITHAL ROAD, VPO – BARNA, KURUKSHETRA</b>			
Village / Town	:	<b>BARNA</b>			
District	:	<b>KURUKSHETRA</b>			
Pin code	:	<b>136119</b>			
Phone	:	STD Code:	<b>01744</b>	Phone No.:	<b>274961</b>
Fax	:	STD Code:	<b>01744</b>	Fax No.:	<b>274961</b>
Mobile	:	<b>9996783008</b>			
E-mail	:	<b>registrar@terii.in</b>			
Website	:	<b>www.terii.in</b>			

<b>2.</b>	<b>NAME AND ADDRESS OF THE TRUST / SOCIETY / COMPANY AND THE TRUSTEES</b>			
Name of the Trust / Society / Company	:	<b>GYANKUND TRUST TO EDUCATE AND TO SERVE</b>		

Address of the Trust / Society / Company	:	<b>B-1/574, JANAKPURI, NEW DELHI</b>			
Village / Town	:	<b>NEW DELHI</b>			
District	:	<b>NEW DELHI</b>			
Pin code	:	<b>110058</b>			
Phone	:	STD Code:	<b>01744</b>	Phone No.:	<b>274961</b>
Fax	:	STD Code:	<b>01744</b>	Fax No.:	<b>274961</b>

<b>DETAILS OF MEMBERS / TRUSTEES</b>				
<b>Sr. No.</b>	<b>Name of the Members of the Trust / Society / Company</b>	<b>Designation in the Trust / Society / Company</b>	<b>Qualification</b>	<b>Experience in running higher educational, technical or other professional institutions (in years)</b>
<b>01.</b>	<b>Mrs. Garima Gupta</b>	<b>Chairman</b>	<b>CA</b>	
<b>02.</b>	<b>Sh. Aditya Gupta</b>	<b>General Secretary</b>	<b>B.Tech</b>	
<b>03.</b>	<b>Dr. Priyanka Gupta</b>	<b>Trustee</b>	<b>MBBS</b>	

Mobile	:	<b>8813922111</b>
E-mail	:	<b>gyankund@gmail.com</b>

<b>3.</b>	<b>PARTICULARS OF THE PRINCIPAL</b>	
Name	:	Dr. M.P. Gupta
Designation	:	PRINCIPAL
Qualification	:	B.Sc.Engg., M.Tech. , Ph.D.
Date of Birth	:	12-12-1954
Date of Joining	:	13-04-2018
Mobile	:	8295974241
Phone	:	STD : 01744                      Phone No. : 274961
Fax	:	STD : 01744                      Fax No. : 274961
E-mail	:	<b>mohenderpalgupta@gmail.com</b>

<b>4.</b>	<b>NAME OF THE AFFILIATING UNIVERSITY/BOARD</b>
Name	Kurukshetra University
Address	Kurukshetra, HARYANA
Website	<a href="http://www.kuk.ac.in">www.kuk.ac.in</a>

## 5. Governance:

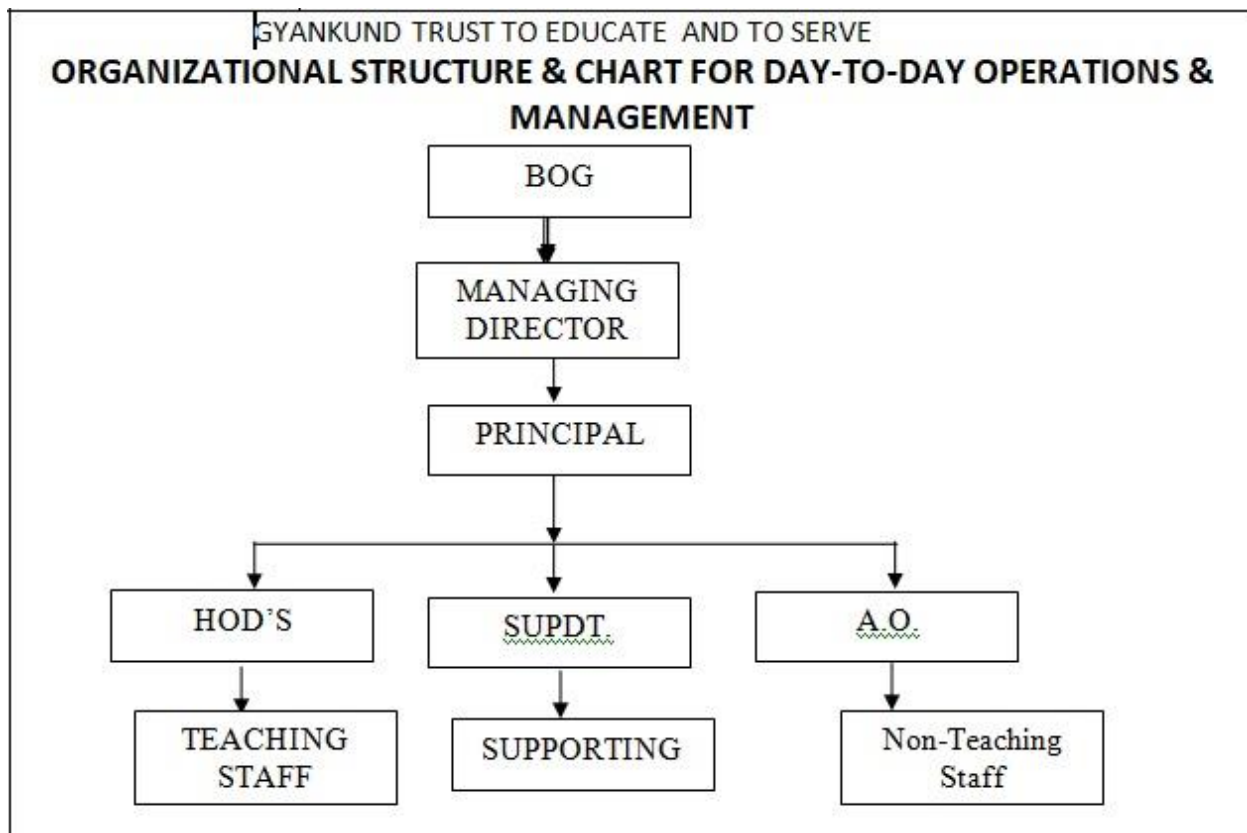
- **Members of the Board and their brief background**

1.	Ms. Garima Gupta	Chairman, GTES
2.	Mr. Aditya Gupta	Secretary, GTES
3.	Dr. Priyanka Gupta	Trustee, GTES
4.	Nominee of University	Member
5.	Nominee of AICTE	Member
6.	Nominee of State Government	Member
7.	Mr. Rajesh Gupta	Project Manager, Infosys, USA
8.	Er. Vimal S. Mehta	Vimal Mehta, President FIFA
9.	Mr. Gurcharan Singh, Faculty Member	Member
10	Dr. Sagar Gulati, Faculty Member	Member
11	Director	Member-Secretary
<b>Frequency of Meeting</b>		<b>Once in a Year</b>

- **Members of Academic Advisory Body**

1.	Dr. M.P. Gupta	Director TERII
2.	Dr. R.S. Chauhan	Professor ( retd. ) NIT Kurukshetra
3.	Dr. Hari Singh	Professor NIT Kurukshetra
4.	Dr. Sagar Gulati	Associate Professor
5.	Mr. Sudhir	Dean Academics/HOD Mechanical
<b>Frequency of Meeting</b>		<b>Twice in a Year</b>

- **Organizational Chart & Process**



- **Nature and Extent of involvement of Faculty and students in academic affairs /improvements:**

Very Much on Regular Basis

- **Mechanism/ Norms and Procedure for democratic/ good Governance**

Whatsapp Group Formed: Management, Director, Faculty and students are the members.

- **Student Feedback on Institutional Governance/ Faculty performance**

Regular Basis through the Feedback Form

- **Grievance Redressal mechanism for Faculty, staff and students**

College follows a proper hierarchical grievance redressal system. Students depending on the type of their grievance can forward it to student counselor, Head of the department. Faculty members can forward their grievance to the HOD, Director/Principal or the Management. Grievance committee & Appellate Committee have been constituted.

Grievance Redressal Committee formed vide office order TERI/21/251 dated 25-03-2021 following are the members

Sr. No	Name	Position
1	Er. Karan Vadhera	Asstt. Professor
2	Er. Rajesh Kumar	Asstt. Professor
3	Ms. Parul	Asstt. Professor
4	Dr. R.S Chouhan	Professor NIT Kurukshetra ( Retd.)

- **Establishment of Anti Ragging Committee**

Anti Ragging Committee formed vide office order TERI/21/254 dated 25-03-2021 following are the members

Sr. No	Name	Position
1	<b>Dr. M. P. Gupta</b>	<b>Head of Institution</b>
2	<b>Sh. Mohinder Singh</b>	<b>ASI, Jyotisar Police Chowki</b>
3	<b>Sh. Ram Pal Sharma</b>	<b>Media Representative</b>

4	<b>Mrs. Kusum Singla</b>	<b>President, Vishwas Foundation, NGO</b>
5	<b>Er. Karan Vadhera</b>	<b>HOD, Civil</b>
6	<b>Sh. Sameer Madan</b>	<b>Parents Representative</b>
7	<b>Prashant Singh</b>	<b>Student Representative</b>
8	<b>Dev Madan</b>	<b>Senior Student's Representative</b>
9	<b>Ms. Neha Gulati</b>	<b>Assistant Professor</b>

- **Establishment of Online Grievance Redressal Mechanism**

Link Available on the website of the institute, [www.terii.in](http://www.terii.in)

- **Establishment of Grievance Redressal Committee in the Institution and Appointment of OMBUDSMAN by the University**
- Grievance Redressal Committee formed vide office order TERI/21/251 dated 25-03-2021 following are the members

Sr. No	Name	Position
1	Er. Karan Vadhera	Asstt. Professor
2	Er. Rajesh Kumar	Asstt. Professor
3	Ms. Parul	Asstt. Professor
4	Dr. R.S Chouhan	Professor NIT Kurukshetra ( Retd.)

- **Establishment of Internal Complaint Committee (ICC)**

Internal Complaint Committee (ICC) formed vide office order TERI/21/253 Dated 25.03.2021 following are the members

Sr. No	Name	Position
1	Ms. Rooz	Presiding Officer, Assistant Professor
2	Mr. Anish Taneja	Member, Assistant Professor

3	Ms. Himanshi Ashri	Member, Assistant Professor
4	Ms. Neha Gulati	Member, Programmer
5	Mr. Vikas Saini	Member, Accountant
6	Ms. Aarti	Member, Student Representative
7	Mr. Sahil	Member, Student Representative
8	Ms. Tania Verma	Member, Student Representative
9	Ms. Kusum Singla	Member, NGO Representative

- **Establishment of Committee for SC/ ST**

A Committee for grievances of SC/ST students formed vide office order TERI/21/252 dated 25-03-2021 following are the members

Sr. No	Name	Position
1	Mr. Rakesh	Assistant Professor, SC Representative
2	Mr. Santosh Paswan	Social Worker, SC Representative
3	Ms. Kirti	Assistant Professor, Female Representative
4	Ms. Parul	Assistant Professor
5	Ms. Vijay Laxmi	Assistant Professor

- **Internal Quality Assurance Cell:**

Internal Quality Assurance Cell formed vide office order TERI/21/250 dated 25-03-2021 following are the members

Sr. No	Name	Position
1	Dr. M P Gupta	Director-TERI

2	Dr. Sagar Gulati	Associate Professor
3	Mr. Gurcharan Singh	Asstt. Professor

## 6. Programmes:

- **Name of Programmes approved by AICTE**

Civil Engineering

Electrical and Electronics Engineering

Mechanical Engineering

Computer Science Engineering

Master of Business Administration

- **Name of Programmes Accredited by AICTE Nil**
- **Status of Accreditation of the Courses Nil**
- **Total number of Courses- NIL**
- **No. of Courses for which applied for Accreditation- NIL**
- **Status of Accreditation – Preliminary/ Applied for SAR and results awaited/  
Applied for SAR and visits completed/ Results of the visits awaited/ Rejected/  
Approved for ..... Courses- NIL**

- For each Programme the following details are to be given:

<b>Name of Programme</b>	<b>Number of Seats</b>	<b>Duration</b>	<b>Cut off marks/rank of admission during the last three years</b>	<b>FEE</b>	<b>Placement Facilities</b>
Civil Engineering	30	4 Years	As per AICTE Norms	As per State Fee regulatory Authority	Good
Electrical and Electronics Engineering	30	4 Years	As per AICTE Norms	As per State Fee regulatory Authority	Good
Mechanical Engineering	30	4 Years	As per AICTE Norms	As per State Fee regulatory Authority	Good
Computer Science Engineering	30	4 Years	As per AICTE Norms	As per State Fee regulatory Authority	Good
Master of Business Administration	30	2 Years	As per AICTE Norms	As per State Fee regulatory Authority	Good
Bachelor of Business Administration	60	3 Years	As per KUK Norms	As per State Fee regulatory Authority	Good

**Campus placement in last three years with minimum salary, maximum salary and average salary:**

S.No.	Academic Year	Name of the Company	No of students recruited	Minimum salary(per year) Offered	Maximum salary(per year) offered	Average salary(per year) offered
1	2020-21	1. K.L.Sons, Ludhiana	1	120000	160000	140000
		2. GPP, Gaziabad	1	180000	240000	220000
		3. Ralson Tyres, khanna	04	120000	150000	135000
		4.Ryder Motors, Rai Sonipat	2	120000	150000	135000
		5.Pal Radiators, Rai Sonipat	1	132000	160000	146000
2	2019-20	1. K.L.Sons Ludhiana	3	150000	200000	175000
		2. Ralco Tyers Ludhiana	4	120000	150000	135000
		3 Pal Radiators, Rai	2	132000	160000	146000

		4 Pragati Paper Mill, Ambala	3	150000	200000	175000
3	2018-2019	1. Pragati Paper Mill	4	108000	120000	114000
		2. Ralson Tyers	6	150000	300000	225000
		3. G.P.P	2	160000	250000	205000
		4. Hero Cycles	2	250000	300000	275000
		5. Pal Radiators	3	240000	250000	245000
		6. Bhagwati Pvt Ltd	2	180000	210000	195000
		7. Forech India Ltd	2	160000	260000	210000
		8. Daga Group	5	150000	240000	150000
		9. Metro Tyers	4	150000	216000	150000

- **Name and duration of programme(s) having Twinning and Collaboration with Foreign University(s) and being run in the same Campus along with status of their AICTE approval. If there is Foreign Collaboration, give the following details:**
  - **Details of the Foreign University:** Not Applicable
  - **Name of the University:** Not Applicable
  - **Address:** Not Applicable
  - **Website:** Not Applicable
  - **Accreditation status of the University in its Home Country:** Not Applicable
  - **Ranking of the University in the Home Country:** Not Applicable
  - **Whether the degree offered is equivalent to an Indian Degree? If yes, the name of the agency which has approved equivalence. If no, implications for students in terms of**

pursuit of higher studies in India and abroad and job both within and outside the country: Not Applicable

- **Nature of Collaboration:** Not Applicable
- **Conditions of Collaboration:** Not Applicable

· **Complete details of payment a student has to make to get the full benefit of Collaboration:** Not Applicable

· **For each Programme Collaborated provide the following:**

**Programme Focus** Not Applicable

**Number of seats:** Not Applicable

**Admission Procedure:** Not Applicable

**Fee:** Not Applicable

**Placement Facility:** Not Applicable




**Placement Records for last three years with minimum salary, maximum salary and average salary:** Not Applicable








**Whether the Collaboration Programme is approved by AICTE? If not whether the Domestic/Foreign/University has applied to AICTE for approval:** Not Applicable

## 7. Faculty

**Branch wise list Faculty members:**

- **Permanent Faculty**







Sr. No.	Name & Full Address	Designation	Qualification	Date of Joining	Nature of Employment	Pay Scale	Photo
1	Dr. M.P. Gupta	Director	Ph.D, M.Tech, B.SC.Engg.	01.04.2017	Regular	1	
<b>Mechanical Engineering Department</b>							
2	Mr. Sudhir Kumar	Assistant Professor (ME)	B.Tech-ME, M.Tech-ME , Ph.D (Persuing)	5/7/2013	Regular	25000	
3	Mr. Pardeep Kumar	Assistant Professor (ME)	B.Tech-ME, M.Tech-ME	2/6/2014	Regular	22000	




4	Mr. Anup Kumar	Assistant Professor (ME)	B.Tech-ME, M.Tech-ME	09.01.2019	Regular	21600	
5	Mr. Yogesh Gupta	Assistant Professor (ME)	B.Tech-ME, M.Tech-ME	19.02.2020	Regular	21600	
6	Mr. Anish Taneja	Assistant Professor (ME)	B.Tech-ME, M.Tech-ME	13/10/2020	Regular	18000	
7	Mr. Jatin Taneja	Assistant Professor (ME)	B.Tech-ME, M.Tech-ME	25.03.2021	Regular	15600	
<b>Electrical &amp; Electronics Engineering Department</b>							
8	Mr. Rajesh Kumar	Assistant Professor (EEE)	B.Tech-EEE, M.Tech-EE	3/6/2013	Regular	44000	
9	Mr. Ghanshyam Kumar Jayswal	Assistant Professor (ECE)	B.Tech-ECE, M.Tech-ECE	5/7/2013	Regular	25000	
10	Ms. Parul Chutani	Assistant Professor (EEE)	B.Tech (ECE), M.Tech (VLSI)	21.08.2018	Regular	20000	

11	Mr. Rakesh Kumar	Assistant Professor (EEE)	B.Tech-EEE, M.Tech-EE	09.01.2019	Regular	21600	
12	Ms. Manu Lall	Assistant Professor (EEE)	B.E (Electrical Engg.) M.Tech (Mechanical Engg.)	25.03.2021	Regular	20000	 <small>NAME: MANU LALL DATE OF PHOTO: 20.12.2020</small>
<b>Computer Science &amp; Engineering Department</b>							
13	Dr. Sagar Gulati	Associate Professor (CSE)	Ph.D (CSE), MCA, B.SC	01.04.2010	Regular	62200	
14	Mr. Kamaldeep	Assistant Professor (CSE)	B.SC, MCA, M.Tech-CSE	21/4/2010	Regular	35500	 <small>Dr. Education KURUKSHETRA</small>
15	Mr. Vikas Goel	Assistant Professor (CSE)	B.Tech-CSE, M.Tech-CSE	19/2/2010	Regular	26500	
16	Ms. Deepa Sharma	Assistant Professor (CSE)	B.COM, MCA, M.Tech-CSE	10/8/2010	Regular	26500	
17	Ms.Himanshi Ashri	Assistant Professor (CSE)	B.Tech-CSE , M.Tech-CSE	4/9/2017	Regular	15100	

18	Ms. Priyanka	Assistant Professor (CSE)	B.Tech-CSE , M.Tech-CSE	02.01.2017	Regular	30000	
19	Mr. Sumit Kumar	Assistant Professor (CSE)	B.E (CSE), M.Tech (I.T)	16/8/2017	Regular	32000	
20	Ms. Rooz Munjal	Assistant Professor (CSE)	B.Tech-CSE , M.Tech-CSE	01.08.2017	Regular	18000	
21	Ms. Anu Rani	Assistant Professor (CSE)	B.Tech-IT , M.Tech-CSE	20.01.2020	Regular	15100	
22	Ms. Seema Semplay	Assistant Professor (CSE)	B.Tech-IT , M.Tech-CSE	20.01.2020	Regular	15100	
23	Ms. Neha Arora	Assistant Professor (CSE)	MCA	01.05.2013	Regular	37000	
24	Mr. Aditya Bakshi	Assistant Professor (CSE)	B.Tech. , M.Tech. (CSE)	25.03.2021	Identified	15600	
25	Ms. Vaishali Madaan	Assistant Professor (CSE)	B.Tech. , M.Tech. (CSE)	27.03.2021	Identified	15600	

26	Ms. Dilpreet Kaur Arora	Assistant Professor (CSE)	B.Tech. , M.Tech. (CSE)	27.03.2021	Identified	15600	
27	Mr. Narinder Sharma	Assistant Professor (CSE)	B.Tech. , M.Tech. (CSE)	27.03.2021	Identified	15600	
28	Mr. Sandeep Sing Rana	Assistant Professor (CSE)	B.Tech. , M.Tech. (CSE)	27.03.2021	Identified	15600	
<b>Civil Engineering Department</b>							
29	Mr.Gurcharan Singh	Assistant Professor (Civil)	Ph.D * -Civil, M.Tech-Civil, B.Tech-Civil	13/9/2013	Regular	55000	
30	Mr. Karan Vadhera	Assistant Professor (Civil)	B.Tech-Civil, M.Tech-Civil	17/8/2015	Regular	26000	
31	Ms. Kiran Kukreja	Assistant Professor (Civil)	B.Tech-Civil, M.Tech-Civil	14.02.2019	Regular	21300	
32	Mr. Nishant Magotra	Assistant Professor (Civil)	B.Tech-Civil	15.07.2019	Regular	15100/-	
33	Mr. Sanjiv Kumar	Assistant Professor (Civil)	B.Tech-Civil	01.02.2016	Regular	17000	

34	Ms. Poonam Devi	Assistant Professor (Civil)	B.Tech-Civil	12.08.2019	Regular	18000	
<b>Management Department (MBA, BBA)</b>							
35	Mr. Sumit	Assistant Professor (MBA)	B.COM, MBA	1/4/2017	Regular	50000	
36	Ms. Nitika Chaudhary	Assistant Professor (MBA)	B.Com, M.Com, MBA	27/2/2017	Regular	15100	
37	Ms. Vijay Luxmi	Assistant Professor (MBA)	B.COM, MBA	15.07.2019	Regular	15600	
38	Ms. Mansi Gupta	Asstt. Professor	BBA, MBA	03.12.2019	Regular	15100	
39	Mr. Manoj Kumar Gupta	Asstt. Professor	B.Com (Hons.), LL.B, LL.M, M.A (Education), M.Com (Account & Law), B.Ed-Eco. & Hindi	01.04.19	Regular	20000	
40	Ms. Bhawana Wadhera	Asstt. Professor	P.G.D.B.M, MBA	03.02.2020	Regular	30000	

41	Ms. Sangeeta Rani	Asstt. Professor	B.Tech-EEE, MBA	25.03.2021	Regular	15600	
<b>Humanities &amp; Applied Science Department</b>							
41	Mr. Digvijay	Assistant Professor	UGC NET, MA (Eng), BA	12.10.2020	Regular	20000	
42	Ms. Kirti	Programmer	B.Sc, MCA	30.09.2020	Regular	15600	
43	Ms. Jyoti	Assistant Professor	B.Sc, M.Sc (Math), B.Ed-Phy Sc. Math	09.03.21	Regular	12000	

- **Permanent Faculty: Student Ratio:**

Permanent Faculty: Student Ratio is **1:20**

**Number of Faculty employed and left during the last three years**

S.N	2018-2019	2019-2020	2020-21
No. of Faculty Left	34	14	20
No. of Faculty Employed	14	20	07

**8. Profile of Vice Chancellor/ Director/ Principal/ Faculty**

As per Annexure

**9. Fees:**

- **Details of fee, as approved by State Fee Committee, for the Institution**

S.N	Couse	Annual Fees
1.	B.Tech	79500/-
2.	MBA	56500/-

- **Time schedule for payment of fee for the entire programme**

Twice in a Year ( May and November )

- **No. of Fee waivers granted with amount and name of students**

<b>Sr. No.</b>	<b>Roll No.</b>	<b>NAME OF STUDENT</b>	<b>BRANCH</b>	<b>scholarship</b>
1	3518302	HARSH DEV	EEE	54890
2	3518303	HARSH KUMAR	EEE	39890
3	3518305	MD MAHMUDUL HASAN	EEE	39890
4	3518404	HANEEP BAJALA	ME	59890
5	3518405	ROBIN SINGH	ME	59890
6	3518406	AMANPREET SINGH	ME	39890
7	3518408	KUMAR SHUBHAM	ME	44890
8	3518409	MOHD YAHAYA	ME	63890
9	3518412	SUMIT KUMAR	ME	59890
10	3518417	TANMOY BORUAH	ME	22690

11	3518601	MUKUND UPADHAYA	CE	49890
12	3518602	PRANAV DEV SINGH	CE	59890
13	3518603	AASHISH KUMAR JHA	CE	29890
14	3518604	K AZATOLI YEPTHO	CE	43435
15	3518605	PUNDEV YADAV	CE	32390
16	3518606	DEVEANSHU	CE	49890
17	3518608	M LEMNYEI KONYAK	CE	43435
18	3518201	BANSHIKA KUMARI	CSE	59890
19	3518204	SAIKU NISSA	CSE	39890
20	3518207	ANANT PRAKASH	CSE	39890
21	3518208	SONU SINHA	CSE	59890
22	3518209	DHEEMAN GUPTA	CSE	59890
23	3518210	DUBEY ANKUR AKHILESH	CSE	59890
24	3518212	KULVINDER SINGH THAKUR	CSE	59890
25	3518213	ANSHU KUMARI	CSE	39890
26	3518215	VIVEK HARSH	CSE	59890
27	3518216	RITESH KUMAR	CSE	59890
28	3518218	JATIN KLOTRA	CSE	59890
29	3518219	MD SAYEEDUR RAHMAN	CSE	39890
30	3518223	SUNIL KUMAR	CSE	59890
31	3518224	SIKANDER	CSE	59890
32	3518225	MOHIT	CSE	44890
33	3517201	K ACHAL	CSE	63660
34	3517202	AKSHAY KUMAR	CSE	63660
35	3517203	AAYUSH ABI	CSE	40660
36	3517205	MD SONU	CSE	63660
37	3517206	ABHISHEK	CSE	55660
38	3517208	SONAL	CSE	63660
39	3517209	MADHU	CSE	84660
40	3517210	NEERAJ SINGH	CSE	55660
41	3517211	ARJUN SINGH	CSE	55660
42	3517212	SHWETA SHARMA	CSE	55660
43	3517213	ANAND SHANKAR PATHAK	CSE	55660
44	3517215	JEWAN JOT	CSE	55660
45	3517221	HIMANSHU BHATT	CSE	55660
46	3517222	MINAKSHI SHARMA	CSE	55660
47	3517223	ARSHI KHATOON	EEE	63660
48	3517224	NAINA KHATOON	CSE	63660
49	3517225	PRAKHAR TRIPATHI	CSE	63660
50	3517227	PRANAB KR SINHA	CSE	55660
51	3517228	MADHU GUPTA	CSE	55660
52	3517229	ANSHU KUMARI	CSE	63660

53	3517231	SHIVAM KUMAR	CSE	63660
54	3517234	SONALI ABROL	CSE	60660
55	3517237	RISHU KASHYAP	CSE	63660
56	3517240	KISHAN ANAND	EEE	63660
57	3517241	KISHLAY RAJ	CSE	63660
58	3517242	BARIQUE ANWAR	CSE	63660
59	3517243	DEV MADAN	CSE	20660
60	3517244	SONIA	CSE	40660
61	3517245	HARSHIT KUMAR SRIVASTAVA	CSE	55660
62	3517246	SHIVANI	CSE	39205
63	3518271	ISRAT JAHAN MITHILA	CSE	35660
64	3518272	DILWAR AHMAD PARA	CSE	35660
65	3517401	HEMANT SHRAFF	ME	5660
66	3517402	MASHRIQUL ISLAM	ME	85660
67	3517403	SALIM JAVED	ME	59660
68	3517404	ASHWANI KUMAR	ME	55660
69	3517405	Haidar Alam	EEE	63660
70	3517407	CHANDRADIP KUMAR YADAV	CE	20660
71	3517409	MOHIT KUMAR	ME	85660
72	3517411	USMAN GANI SIDDIQUE	ME	85660
73	3517413	ZABIHUDDIN	EEE	63660
74	3517414	AMARJEET KUMAR	ME	63660
75	3517415	AJAY KUMAR BARDWAJ	CE	55660
76	3517417	AFRAJ ALI	ME	63660
77	3517418	UTKARSH SHANKAR	ME	63660
78	3517419	WAJID ANSARI	ME	63660
79	3517423	SURAJ KUMAR	ME	25660
80	3517431	BILAL SARWAN	ME	85660
81	3517434	SANJEET SINGH	ME	55660
82	3517437	PAPUL KUMAR KARN	ME	4710
83	3518471	SACHIN ATTRI	ME	39890
84	3518473	MD. SHOPON MIA	ME	39890
85	3518474	SAMARENDRA BALO	ME	39890
86	3518475	RITU KHAN	ME	39890
87	3518477	TAUSIF AHAMAD ANSARI	ME	51890
88	3518478	VISHWA NATH MAHAT	ME	78890
89	3517601	AJIT KUMAR	CE	63660
90	3517602	JASDEV SINGH	CE	55660
91	3517603	SK SALMAN	CE	63660
92	3517604	SHIVALI SHARMA	CE	55660
93	3517605	WASID MAJEED	CE	55660
94	3517606	MOHD YASEEN	CE	55660

95	3517607	ANIL SHARMA	CE	55660
96	3517608	VIDIT SHARMA	CE	55660
97	3517610	NITISH SHARMA	CE	55660
98	3517611	ABHISHEK SINGH JAMWAL	CE	55660
99	3517613	ADNAN TARIQ	CE	59660
100	3517615	ABHISHEK SINGH RAJWAJ	CE	55660
101	3517616	ATUL SHARMA	CE	55660
102	3517617	MOHAMMAD ALI BALTI	CE	55660
103	3517620	BALVINDER KUMAR	CE	55660
104	3517622	PAWAN SINGH	CE	55660
105	3517624	NARESH KUMAR	CSE	55660
106	3517625	MOHIT KUMAR DOGRA	CE	55660
107	3517626	DANISH MAHAJAN	CE	55660
108	3517632	DANISH FARAZ	CE	63660
109	3517633	MD NEHALUDDIN ANSARI	CE	63660
110	3517635	ANIL KUMAR MANDAL	CE	25660
111	3517637	KUSH BANDRAL	CE	55660
112	3517641	RAKESH KUMAR YADAV	CE	20660
113	3517642	SUBASH SINGH	CE	25660
114	3517644	ASHISH CHANDER	CE	59660
115	3517646	JOGESH	ME	55660
116	3517647	RAVI KUMAR	CE	40660
117	3517654	AKSHAY KUMAR	CE	55660
118	3517655	BHUPU KUMAR YADAV	CE	10660
119	3517657	NIKESH KUMAR	CE	63660
120	3518673	DEEPAK	CE	44890
121	3518674	KAHUTO S YEPTHO	CE	44890
122	3518676	PRATHAM	CE	44890
123	3518680	MD. JAHIDUL ISLAM	CE	39890
124	3518681	MD. KAMRUJJAMAN MUNNA	CE	39890
125	3518684	KAMRUL HASAN	CE	39890
126	3518685	RAKESH KUMAR	CE	52690
127	3518686	MD. MIZANUR RAHMAN	CE	39890
128	3518688	RANJEET KUMAR	CE	39890
129	3518689	MAHDEE HASAN SOHAG	CE	39890
130	3518690	VIDIT MOUDGIL	CE	49890
131	3518691	DINESH JANGRA	CE	39890
132	1717004	DINESH KUMAR	CE	24890
133	3517306	SUDHANSU KUMAR	EEE	63660
134	3517308	TARIQUE ANWAR	EEE	63660
135	3517312	AJAY KUMAR MAHATO	EEE	15660
136	3517313	AJAY SHARMA	EEE	45660

137	3517314	SUMIT	EEE	37660
138	3518372	MEHEDI HASAN	EEE	39890
139	3516301	AARIZ ABBAS	CSE	65660
140	3516439	RAMAN KUMAR	CSE	65660
141	3516203	AFRIDI SHAMIM	CSE	65660
142	3516205	AKSHAY MADAN	CSE	24560
143	3516209	BHARAT BHUSHAN	CSE	40660
144	3516212	HAIDER ABBAS	CSE	65660
145	3516213	HIMANSHU KUMAR	CSE	65660
146	3516214	JATIN YADAV	CSE	20660
147	3516215	JILLAJIT KUMAR SAH	CSE	25660
148	3516216	KAMAL DEV SINGH	CSE	55660
149	3516218	KUMARI MEDHA	CSE	65660
150	3516219	KUNTAL MAITY	CSE	65660
151	3516223	MOHD ARSHAD	CSE	65660
152	3516238	SHIKHA RAJ	CSE	65660
153	3516240	TANMOY MONDAL	CSE	65660
154	3516246	MAHINDER SINGH	CSE	35660
155	3517476	UTKARSH ANAND	ME TO CSE	55660
156	3517271	GOPAL KUMAR	CSE	63660
157	3517273	MD DANISH	CSE	85660
158	3517275	SUJATA MAURYA	CSE	85660
159	3517276	SURAJ MANI	CSE	85660
160	3517277	PANKAJ	CSE	45660
161	1716157	JOGENDER	CSE	39890
162	1716159	MANISH KALA	CSE	39890
163	1716164	PRERNA KUMARI	CSE	33490
164	1716175	SAGAR VERMA	CSE	30940
165	3516224	MOHD. ARSHAD	ME	65660
166	3516236	SAYAN GIRI	ME	65660
167	3516404	AMAN ALI	ME	75660
168	3516411	ANMOL	ME	20660
169	3516416	ASLAM KHAN	ME	65660
170	3516417	BIKRANTA KUMAR SAH	ME	22660
171	3516421	LAXMAN NARAYAN SAH	ME	55660
172	3516422	LOKENDRA KUMAR SAH	ME	5660
173	3516424	MD AKRAM SHAHID	ME	65660
174	3516425	MD AMIR SOHAIL	ME	65660
175	3516426	MD ASIF AKHTER	ME	85660
176	3516428	MD NEYAZ ALAM	ME	65660
177	3516434	PRANAV JYOTI	ME	40660
178	3516443	SALIMULLAH KHAN	ME	65660

179	3516445	SANJEEV SHARMA	ME	55660
180	3516446	SHAHBAZ ALAM	ME	65660
181	3516447	SHAMBHU YADAV	ME	5660
182	3516448	SHRAWAN KUMAR SAH	ME	25660
183	3516453	TUSHAR SHARMA	ME	35660
184	3516454	VISHAL KUMAR PANDEY	ME	65660
185	3516456	YASH PAL SHARMA	ME	35660
186	3516465	SHASHI KANT CHAUDHARY	ME	15660
187	3517471	ROHAN KUMAR	ME	47660
188	1716608	RISHABH	ME	30940
189	1716616	MD. IBRAHIM MRIDHA	ME	49890
190	1716617	MAMUN MIA	ME	39890
191	1716619	NIBIR AHMED	ME	39890
192	1716623	SREE MOLOY KUMAR SARKER	ME	49890
193	1716624	MD. TARIQUL ISLAM SHIHAB	ME	39890
194	3516653	USMAN ANSARI	EEE	35660
195	3516305	MD CHAND ALAM	EEE	65660
196	3516307	MD. ASLAM	EEE	65660
197	3516309	MUKESH KUMAR SAH	EEE	19010
198	3516311	ROZE ALI	EEE	65660
199	3516315	SONIKA PARIHAR	EEE	55660
200	3516319	YASIR ZEYA	EEE	65660
201	3517371	SUBHAN AKHTAR	EEE	63660
202	3517372	SONU KUMAR GIRI	EEE	63660
203	3517373	SABIA ASMAT	EEE	59660
204	3517375	SUMIT THAKUR	EEE	55660
205	3517376	HAPPY	EEE	48160
206	1716452	AJAY KUMAR	EEE	30940
207	1716455	BHUMIKA JINDAL	EEE	30940
208	1716456	MAKHAN SINGH	EEE	39890
209	1716464	ATUL ROHILLA	EEE	30940
210	1716466	IBRHIM KHAN SUMAN	EEE	39890
211	1716467	MANIK AHMED	EEE	39890
212	1716471	ROBIUL ISLAM	EEE	39890
213	3516306	MD MUDASSAR AZAM	CIVIL	65660
214	3516308	MOHD HAIDER	CIVIL	65660
215	3516401	ABHISHEK CHAUDHARY	CIVIL	15660
216	3516423	MANOJ YADAV	CIVIL	35660
217	3516442	RUPALI SHARMA	CIVIL	55660
218	3516459	RAVINDER SINGH	CIVIL	85660
219	3516601	ABDUS SAMAD	CIVIL	65660

220	3516602	ABHIJEET THAKUR	CIVIL	55660
221	3516608	AMAN SINGH	CIVIL	55660
222	3516609	KM ASHA DEVI	CIVIL	25660
223	3516614	CHANDAN KUMAR YADAV	CIVIL	25660
224	3516616	DHIRENDRA KUMAR MANDAL	CIVIL	25660
225	3516619	JEEVAN KASHYAP	CIVIL	30660
226	3516621	KANHAIYA KUMAR SHAH	CIVIL	25660
227	3516625	MD FASIHUL ABIDIN	CIVIL	65660
228	3516626	MD SABRE AYUB	CIVIL	65660
229	3516627	MD TAUSEEF ALAM	CIVIL	65660
230	3516630	MOHAMMAD IMAM HUSAN	CIVIL	63660
231	3516631	MUKESH KUMAR DAS	CIVIL	15660
232	3516634	NIRANJAN KUMAR SAH	CIVIL	26510
233	3516637	RAHABARE ISLAM	CIVIL	63660
234	3516638	RAJAT RANJAN	CIVIL	25660
235	3516643	ROSHAN KUMAR SAH	CIVIL	10660
236	3516646	SANDEEP	CIVIL	35660
237	3516649	SUJIT KUMAR SAH	CIVIL	15660
238	3516651	SURAJ JASROTIA	CIVIL	55660
239	3516654	VIKAS KUMAR	CIVIL	35660
240	3516659	SUSHEEL KUMAR	CIVIL	55660

**Number of scholarship offered by the Institution, duration and amount**

<b>Sr. No.</b>	<b>Roll No.</b>	<b>NAME OF STUDENT</b>	<b>BRANCH</b>	<b>scholarship</b>
1	3517671	KHATIJA BANO	CIVIL	59660
2	3517672	SADHYA ZEENAT	CIVIL	59660
3	3517673	NAJMA NIKHAT	CIVIL	59660
4	3517674	SHRADDHA MAURYA	CIVIL	85660
5	3517675	MD TANWEER	CIVIL	85660
6	1716002	ANIRUDH SINGLA	CIVIL	33490
7	1716010	PAWAN INDAL	CIVIL	29890
8	1716021	DHIPOK CHANDRA DAS	CIVIL	39890
9	1716023	OMAR FARUQ	CIVIL	39890
10	3515403	MOHAN LAL	CSE	35660
11	3515201	TAIYABA WANI	CSE	25660
12	3515203	DENI KUMAR	CSE	30660

13	3515204	SWEETY	CSE	30660
14	3515205	PURNIMA BURNWAL	CSE	35660
15	3515208	ROHIT PANWAR	CSE	33660
16	3516275	TAYAJUDIN MIYA ANSARI	CSE	47660
17	3515605	ANKIT KUMAR	ME	25660
18	3515611	SAROJ KUMAR KAPAR	ME	5660
19	3515621	MOHMAD YOUNES MIR	ME	35660
20	3515401	SHUBHAM KUMAR RAY	ME	5660
21	3515405	PARVEEN KUMAR	ME	35660
22	3515407	KARTIK SAINI	ME	35660
23	3515410	VIKAS BHATI	ME	25660
24	3515411	SATISH KUMAR	ME	20660
25	3515412	KISHAN SINGH	ME	15660
26	3515414	NABIN KUMAR YADAV	ME	15660
27	3516472	KHUSHBOO KUMARI	ME	55660
28	3516473	GAURAV KUMAR	ME	45660
29	3516474	RAUSHAN KUMAR PANDEY	ME	45660
30	3516476	VIBHESH KUMAR GIRI	ME	47660
31	3516477	ZIA MUSTFA KHAN AJMALI	ME	65660
32	3516483	MOZAHIDUL ISLAM	ME	45660
33	1715631	GAJENDRA KUMAR RAM	ME	44890
34	1715632	PANKAJ KUMAR DAS	ME	59890
35	1715636	ASRAFUL ISLAM	ME	59890
36	1715640	MD. SYDUR RAHMAN	ME	39890
37	1715646	MD. MOJAHIDUL ISLAM	ME	49890
38	3515601	GAUTAM KUMAR	CIVIL	25660
39	3515602	PRAMATMA THAKUR	CIVIL	15660
40	3515603	RAHUL SHARMA	CIVIL	15660
41	3515608	SUMAN SHARMA	CIVIL	5660
42	3515610	FIROZ ALAM	CIVIL	35660
43	3515613	VIVEK KUMAR SAH	CIVIL	18160
44	3515614	RAJIV KUMAR SAH	CIVIL	5660
45	3515615	MOHAMMAD PRAVEJ AALAM	CIVIL	30660
46	3515616	SAROJ KUMAR YADAV	CIVIL	5660
47	3515618	EKHLAK AHMED	CIVIL	35660
48	3515655	BISHAL JHA	CIVIL	20660
49	3516671	JUHI KUMARI	CIVIL	35660
50	3516672	MANOJ KUMAR	CIVIL	50660
51	3516673	MOHAMMAD AFROZ NAWAZ	CIVIL	65660
52	3516674	SUMAN RANI	CIVIL	35660
53	3516677	SHUBHAM	CIVIL	46660
54	3516681	SUPRIYA MAHAJAN	CIVIL	55660
55	5615307	GAGAN MAAN	CIVIL	25660

56	1715021	SHUBHAM BHARDWAJ	CIVIL	24890
57	1715029	SAHIL CHANDER	CIVIL	48640
58	1715030	RAKESH KUMAR	CIVIL	64490
59	1715031	CHETAN KUMRA	CIVIL	29490
60	1715038	ANKIT KUMAR	CIVIL	39890
61	1715043	ASHISH	CIVIL	39890
62	1715044	ASHRAFUL ISLAM	CIVIL	49890
63	1715045	ATISH JADDER	CIVIL	49890
64	1715056	MD. JEWEL RANA	CIVIL	49890
65	1715058	MD. MAMUN OR RASHID	CIVIL	49890
66	1715067	PRODIP MAJUMDAR	CIVIL	49890
67	1715069	RAJAT GARG	CIVIL	49890
68	3515102	ROSHAN KUMAR SAH	EEE	20660
69	3515656	SUSHIL KUMAR MANDAL	EEE	34879
70	3515301	SARWAN KUMAR	EEE	45660
71	3515302	NAROTTAM SAH	EEE	30660
72	3515303	JAGJEET SINGH	EEE	35660
73	1715453	ANURADHA	EEE	69890
74	1715454	LAXMIKANT	EEE	39490
75	1715469	AGAM LAL MAHATO	EEE	39890
76	1715470	AL AMIN ROKIB	EEE	49890
77	1715475	MD. ANWER HOSAIN	EEE	49890
78	1715476	MD. ARIFUR RAHMAN	EEE	49890
79	1715481	MD. NOMAN BASHIR	EEE	49890
80	1715482	MD. RAIHAN HOSSAIN	EEE	49890
81	1801	SWATI KUMARI	MBA	35740
82	1802	KIRTI ARORA	MBA	31740
83	1805	AMIT	MBA	28240
84	1808	GAURAV SHARMA	MBA	30740
85	1809	KUNAL MITTAL	MBA	28240
86	1810	YASH SHARMA ALIAS TINKU SHARMA	MBA	30740
87	1811	VIPIN KUMAR	MBA	25740
88	1812	DAKSH JAIN	MBA	25740
89	1814	SANYA	MBA	30740
90	1815	AMISHA	MBA	25740
91	1816	DHRAMVEER JHA	MBA	32740
92	1818	SANGEETA RANI	MBA	35740
93	1819	SANGEETA DEVI	MBA	33740
94	1820	SHEENAM MITTAL	MBA	35740
95	1821	VISHAL MADAAN	MBA	25740
96	1822	AJAY GUPTA	MBA	25740
97	1824	KOMAL RANI	MBA	30740

98	1701	SUNIL KUMAR	MBA	30510
99	1702	BHARAT KHETARPAL	MBA	40510
100	1703	DINESH KUMAR	MBA	35510
101	1705	RAKESH KUMAR	MBA	30510
102	1707	SWATI SAGWAL	MBA	40510
103	1708	PARAS WALIA	MBA	27510
104	1710	AASTHA GOYAL	MBA	30510
105	1711	NISHA GOYAL	MBA	31510
106	1712	DEEPANSHI GOYAL	MBA	31510
107	1713	SUNIL KUMAR	MBA	30510
108	1714	TEJASVI BAJAJ	MBA	25510
109	1717	SUNIL KUMAR PATEL	MBA	36510
110	1719	SARWAT AFREEN	MBA	38510
111	1720	YASSER ALI MIRZA	MBA	34510
112	1723	MD TAUSIF RAZA KHAN	MBA	38510
113	1724	DIMPI SAINI	MBA	2510
114	1725	DINESH	MBA	30510
115	1726	BUSHRA AKHTAR	MBA	60510
116	17173215	SIMRAN	MBA	24140
117	17173201	GAGAN GANDHI	MBA	21190
118	17173210	PARDEEP MISHRA	MBA	28790

- **Criteria for fee waivers/scholarship:** Merit cum Means & Need Based
- **Estimated cost of Boarding and Lodging in Hostels:** 50000 per Year

#### 10. Admission:

- **Number of seats sanctioned with the year of approval**

S. No.	Branch Name	2018-19	2019-20	2020-21
1.	Civil Engg.	60	30	30
2.	Electrical & Electronics Engg.	60	30	30
3.	Mechanical Engg.	60	30	30
4.	Computer Science & Engg.	60	30	30
5.	MBA	60	30	30

6	BBA	60	60	60
Total		360	210	210

**Number of Students admitted under various categories each year in the last three years**

S. No.	Branch Name	2018-19	2019-20	2020-21
1.	Civil Engg.	9	21	9
2.	Electrical & Electronics Engg.	6	11	9
3.	Mechanical Engg.	17	9	6
4.	Computer Science & Engg.	29	22	33
5.	MBA	24	16	24
6.	BBA	37	53	37
Total				

**Number of applications received during last two years for admission under Management Quota and number admitted**

S. No.	Branch Name	2019-20		2020-21	
		Application received	Admitted	Application received	Admitted
1.	Civil Engg.	19	19	17	17
2.	Electrical & Electronics Engg.	17	17	11	11

3.	Mechanical Engg.	19	19	10	10
4.	Computer Science Engg.	30	30	34	34
5.	MBA	18	18	24	24
6.	BBA	60	60	55	55
Total		163	163	151	151

### 11. Admission Procedure:

- **Mention the admission test being followed, name and address of the Test Agency and its URL (website) :** Admission on Merit basis of the receipt applications.
- **Number of seats allotted to different Test Qualified candidate separately (AIEEE/ CET (State conducted test/ University tests/ CMAT/ GPAT)/ Association conducted test):** No Seat allotted
- **Calendar for admission against Management/vacant seats:**
- **Last date of request for applications:** As per HSTES,Panchkula
- **Last date of submission of applications:** As per HSTES,Panchkula
- **Dates for announcing final results:** As per HSTES,Panchkula
- **Release of admission list (main list and waiting list shall be announced on the same day):** As per HSTES,Panchkula
- **Date for acceptance by the candidate (time given shall in no case be less than 15 days):** As per HSTES,Panchkula
- **Last date for closing of admission:** As per HSTES,Panchkula
- **Starting of the Academic session:** As per HSTES,Panchkula
- **The waiting list shall be activated only on the expiry of date of main list:** OK
- **The policy of refund of the fee, in case of withdrawal, shall be clearly notified:** Yes

### 12. Criteria and Weightages for Admission

- **Describe each criterion with its respective weightages i.e. Admission Test, marks in qualifying examination etc.:** Marks in Qualifying Examination
- **Mention the minimum level of acceptance, if any:**As per KUK
- **Mention the cut-off levels of percentage and percentile score of the candidates in the admission test for the last three years:** No Admission Test
- **Display marks scored in Test etc. and in aggregate for all candidates who were admitted:** Not Applicable

### 13. List of Applicants:

List of candidate whose applications have been received along with percentile/percentage score for each of the qualifying examination in separate categories for open seats. List of candidate who have applied along with percentage and percentile score for Management quota seats in 2020-21

Branch Name	Sr No	Name	F/H Name	Mother Name	Agg. Marks
Civil Engg.	1	AJAY	ISHWAR SINGH	SANTRO RANI	81.6
	2	ARSHDEEP SINGH	BHAGAT SINGH	KULDEEP KAUR	90
	3	DIPESH KUMAR LAMA	AGAM LAL LAMA	ASHA LAMA	79.07
	4	KAPIL BENIWAL	NARAYAN SINGH	SHREE	64.6
	5	KOHLIBA C SANGTAM	CHOPONGSE SANGTAM	NOKHOLA SANGTAM	61.2
	6	MD ASRAF ALI	MD TALIB ALI	MINAJAN	49.6
	7	MD SAJIB HOSEN SHANTO	MD ABDUL MONNAF	SHAHIDA KHATUN	49.2
	8	MIR REYAZUDDIN	MIR QIAMUDDIN	QIAMUDDIN	67

	9	MOHAMMAD SHOAB MOHMOODI	ABDUL JAMIL	ABDUL JAMIL	55
	10	MR ANUZO NIENU	ZACUYI NIENU	ZACUYI NIENU	82
	11	NAND KISHOR MAHATO	RABINATH MAHATO	PRAMILA KUMARI KUSHWAHA	81.67
	12	REET BHATIA	RAJAT BHATIA	NEHA	50
	13	SAKSHI	SHYAM LAL	MEENA DEVI	71
	14	SHUBHAM MONGA	SAMIR MONGA	BHAWNA MONGA	77
	15	VIKITO ACHUMI	Y VIHOTO ACHUMI	GHOTOLI ACHUMI	69.4
	16	VISALILA Y SANGTAM	YULISE SANGTAM	CHOTSILA SANGTAM	60
	17	VISHAKHA	VINIT KUMAR	MEENA KUMARI	95
Computer Science and Engg.	1	AARTI	RAMDHARI	MAMTESH	78
	2	ABDUL GHAFOOR MUZAFAR	MOHAUDDIN	SAOIBA	91.14
	3	ABDUL RAHMAN SAFI	ABDUL WALI SAFI	SHAH BIBI	76.8
	4	AHMAD NABIL NESARI	NESAR AHMAD	MAHMODA	50
	5	AHMAD SROSH	ZABIULLAH	ZABIULLAH	66.31
	6	AMAN SINGH	SUBHASH CHAND	MAHENDRO DEVI	66.2
	7	ANGREJ SINGH	SUKHDEV SINGH	PINDER KAUR	68.2
	8	ASHUTOSH MISHRA	DINESH MISHRA	GYANTI MISHRA	75
	9	BISMULLAH	AHMAD SHAH	SIDIQHA	67.27
	10	DHEERAJ GARG	RAJIV GARG	REETA	85
	11	HARSHIT	ARUN KUMAR	SHOBHA	73
	12	HASIBULLAH	ATIQULLAH	NASRIN	70
	13	MD FAHAD MIAH	TAZUMUDDIN SIKDER	ANWARA BEGUM	73
	14	MD MUSTAFIZUR RAHMAN	MD MAZIBAR RAHMAN	MONOWARA AKTER	74
	15	MD RAKIBUDDIN	MD DELOWAR HOSSAIN	ZINNATARA	60
	16	MD ZUBAYED SHIKDER	MD SOROAR SHIKDER	CHINA BEGUM	60
	17	MOHAMMAD HASSAN MOHAMMADI	REZA DAD	FAKHRIA	82
	18	MONEEB AHMAD EFAT	NAQEEBULLAH	NAQEEB	81
	19	MUJTABA NIKZAD	SARDAR AQA	BIBI SHERIN	65
	20	MUKUL	HARI RAM	DARSHNA	50
	21	NIKHIL	SURESH KUMAR	LAXMI DEVI	74.33
	22	OM NARAYAN CHOUDHARY	PREM CHANDRA CHOUDHARY	KANTA DEVI	63.4
	23	PROSANJIT BARAI	CHINMOY BARAI	SNEHA LATA BARAI	71
	24	RIADUL ISLAM	GOLAM NABI	MORZINA BEGUM	85
	25	RUPAK JANA	PRANABESH JANA	SHYAMALI JANA	86.4
	26	SANJAY DOLEY	NARAYAN DOLEY	MONIKA DOLEY	60
	27	SAYED HAMED SADAT	SAYED RAHMAN	JAMILA	50
	28	SAYED TAMIM	QAND SHEREEN	ZARIFA	72.37
	29	SAYED ZOBIR SADAT	SAYED GULL HASSAN	GULL	76.97

	30	SHOVON ROY SHUVRO	PARITOSH KUMAR ROY	PROTIMA SARKAR	88
	31	SONAM	RAM CHARAN	URMILA	76.4
	32	SONU KUMAR	THAKUR SINGH	KABUTARI DEVI	75.4
	33	SOURAV KUMAR SHARMA	VINOD SHARMA	REKHA SHARMA	65
	34	SULAIMAN NASERI	MOHAMMAD DAWOOD	EQLEMA	55
	35	VISHAL SINGH	RAJU SINGH	POONAM DEVI	89.6
Electrical and Electronics Engg.	1	APURB RAJ	DILIP KUMAR SINGH	DALLI KUMARI SINGH	50
	2	ARIFULLAH ALIME	MOHAMMAD ALLAM	BIBI FARZANA	64.59
	3	ARUN KUMAR KUSHWAHA	RAM PRASAD KUSHWAHA	RITA DEVI	67.06
	4	GAURAV	SHEORAM	HUKMI DEVI	61.8
	5	MD NAZMUS SAKIB	MD SAMSUL ALAM	RAZIA KHATUN	52
	6	MD SOHANUR TASNIM	MD SELIM HOSSAIN	MST NURJAHAN KHATUN	50
	7	MST SANJIDA YEASMIN SATHI	MD ABUL KASHEM	MST AFROZA YEASMIN	90
	8	ROHIT KUMAR	DESH RAJ	MAHINDRO DEVI	75
	9	ROSHAN KUMAR KUSHWAHA	BABU RAM PRASAD KUSHWAHA	JAMANTI DEVI	70.4
	10	SAHIL HANS	SANJAY KUMAR HANS	MEENA HANS	93.2
	11	SATRUDHAN KUMAR SAH	CHAUTHI SAH	SHIV KUMARI DEVI SAH	78.23
Mechanical Engg.	1	AJITABH	JITENDER	KOMAL	55
	2	ATIF AHMAD KHAN	NAUSHAD KHAN	FARZANA BANO	59.6
	3	AZIMUDDIN AHAMMED	MD NOZRUL ISLAM	MST TAHIRA KHATUN	75
	4	KULDEEP	SURESH KUMAR	ROSHANI	60
	5	MANAV DEWAN	VIJAY KUMAR DEWAN	NEHA	55
	6	MD MOEENUDDIN	MD FARUK RAZA	KARIMUN NISA	53.5
	7	MD. IKBAL KAWSAR LEMON	MD. ASAN ALI	BEAUTY BEGUM	66
	8	PARSOTTAM KUMAR	SHAMBHU PRASAD SINGH	VINA DEVI	52
	9	SREE PAILOT CHANDDRA ROY	SREE BOMKIM CHANDDRA ROY	SREE PARTIVA RANI	72
	10	SYED HAIDAR ABBAS	SYED ALI NAQI ABDI	TAMANNA RIZVI	67.2

#### 14. Results of Admission Under Management seats/Vacant seats:

- **Composition of selection team for admission under Management Quota with the brief profile of members (This information be made available in the public domain after the admission process is over):**

A committee of following members were formed for the admission under management Quota

S.N	Name	Position	Designation
1.	Dr. Sagar Gulati	Associate. Professor	Member
2.	Ms. Neha Arora	Asst. Professor	Member
3.	Mr. Karan	Asst. Professor	Member

- **Score of the individual candidate admitted arranged in order or merit:**

Sr No	Name	F/H Name	Agg. Marks
1	VISHAL SINGH	RAJU SINGH	89.6
2	SULAIMAN NASERI	MOHAMMAD DAWOOD	55
3	SOURAV KUMAR SHARMA	VINOD SHARMA	65
4	SONU KUMAR	THAKUR SINGH	75.4
5	SONAM	RAM CHARAN	76.4
6	SHOVON ROY SHUVRO	PARITOSH KUMAR ROY	88
7	SAYED ZOBIR SADAT	SAYED GULL HASSAN	76.97
8	SAYED TAMIM	QAND SHEREEN	72.37
9	SAYED HAMED SADAT	SAYED RAHMAN	50
10	SANJAY DOLEY	NARAYAN DOLEY	60
11	RUPAK JANA	PRANABESH JANA	86.4
12	RIADUL ISLAM	GOLAM NABI	85
13	PROSANJIT BARAI	CHINMOY BARAI	71
14	OM NARAYAN CHOUDHARY	PREM CHANDRA CHOUDHARY	63.4
15	NIKHIL	SURESH KUMAR	74.33
16	MUKUL	HARI RAM	50
17	MUJTABA NIKZAD	SARDAR AQA	65
18	MONEEB AHMAD EFAT	NAQEEBULLAH	81
19	MOHAMMAD HASSAN MOHAMMADI	REZA DAD	82
20	VISHAKHA	VINIT KUMAR	95
21	VISALILA Y SANGTAM	YULISE SANGTAM	60

22	MD ZUBAYED SHIKDER	MD SOROAR SHIKDER	60
23	MD RAKIBUDDIN	MD DELOWAR HOSSAIN	60
24	VIKITO ACHUMI	Y VIHOTO ACHUMI	69.4
25	MD MUSTAFIZUR RAHMAN	MD MAZIBAR RAHMAN	74
26	SHUBHAM MONGA	SAMIR MONGA	77
27	SAKSHI	SHYAM LAL	71
28	MD FAHAD MIAH	TAZUMUDDIN SIKDER	73
29	REET BHATIA	RAJAT BHATIA	50
30	HASIBULLAH	ATIQULLAH	70
31	HARSHIT	ARUN KUMAR	73
32	SATRUDHAN KUMAR SAH	CHAUTHI SAH	78.23
33	NAND KISHOR MAHATO	RABINATH MAHATO	81.67
34	SYED HAIDAR ABBAS	SYED ALI NAQI ABDI	67.2
35	MR ANUZO NIENU	ZACUYI NIENU	82
36	DHEERAJ GARG	RAJIV GARG	85
37	SAHIL HANS	SANJAY KUMAR HANS	93.2
38	MOHAMMAD SHOAIB MOHMOODI	ABDUL JAMIL	55
39	BISMULLAH	AHMAD SHAH	67.27
40	ROSHAN KUMAR KUSHWAHA	BABU RAM PRASAD KUSHWAHA	70.4
41	SREE PAILOT CHANDDRA ROY	SREE BOMKIM CHANDDRA ROY	72
42	PARSOTTAM KUMAR	SHAMBHU PRASAD SINGH	52
43	MIR REYAZUDDIN	MIR QIAMUDDIN	67
44	ASHUTOSH MISHRA	DINESH MISHRA	75
45	ROHIT KUMAR	DESH RAJ	75
46	MD SAJIB HOSEN SHANTO	MD ABDUL MONNAF	49.2
47	MD. IKBAL KAWSAR LEMON	MD. ASAN ALI	66
48	ANGREJ SINGH	SUKHDEV SINGH	68.2
49	MST SANJIDA YEASMIN SATHI	MD ABUL KASHEM	90
50	MD ASRAF ALI	MD TALIB ALI	49.6
51	MD SOHANUR TASNIM	MD SELIM HOSSAIN	50
52	MD MOEENUDDIN	MD FARUK RAZA	53.5
53	AMAN SINGH	SUBHASH CHAND	66.2
54	MD NAZMUS SAKIB	MD SAMSUL ALAM	52

55	MANAV DEWAN	VIJAY KUMAR DEWAN	55
56	KOHLIBA C SANGTAM	CHOPONGSE SANGTAM	61.2
57	AHMAD SROSH	ZABIULLAH	66.31
58	AHMAD NABIL NESARI	NESAR AHMAD	50
59	KULDEEP	SURESH KUMAR	60
60	GAURAV	SHEORAM	61.8
61	KAPIL BENIWAL	NARAYAN SINGH	64.6
62	ARUN KUMAR KUSHWAHA	RAM PRASAD KUSHWAHA	67.06
63	AZIMUDDIN AHAMMED	MD NOZRUL ISLAM	75
64	ABDUL RAHMAN SAFI	ABDUL WALI SAFI	76.8
65	DIPESH KUMAR LAMA	AGAM LAL LAMA	79.07
66	ATIF AHMAD KHAN	NAUSHAD KHAN	59.6
67	ARIFULLAH ALIME	MOHAMMAD ALLAM	64.59
68	ARSHDEEP SINGH	BHAGAT SINGH	90
69	ABDUL GHAFOOR MUZAFAR	MOHAUDDIN	91.14
70	APURB RAJ	DILIP KUMAR SINGH	50
71	AJITABH	JITENDER	55
72	AARTI	RAMDHARI	78
73	AJAY	ISHWAR SINGH	81.6

- **List of candidate who have been offered admission**

Sr No	Name	F/H Name
1	VISHAL SINGH	RAJU SINGH
2	SULAIMAN NASERI	MOHAMMAD DAWOOD
3	SOURAV KUMAR SHARMA	VINOD SHARMA
4	SONU KUMAR	THAKUR SINGH
5	SONAM	RAM CHARAN
6	SHOVON ROY SHUVRO	PARITOSH KUMAR ROY
7	SAYED ZOBIR SADAT	SAYED GULL HASSAN
8	SAYED TAMIM	QAND SHEREEN
9	SAYED HAMED SADAT	SAYED RAHMAN
10	SANJAY DOLEY	NARAYAN DOLEY
11	RUPAK JANA	PRANABESH JANA
12	RIADUL ISLAM	GOLAM NABI

13	PROSANJIT BARAI	CHINMOY BARAI
14	OM NARAYAN CHOUDHARY	PREM CHANDRA CHOUDHARY
15	NIKHIL	SURESH KUMAR
16	MUKUL	HARI RAM
17	MUJTABA NIKZAD	SARDAR AQA
18	MONEEB AHMAD EFAT	NAQEEBULLAH
19	MOHAMMAD HASSAN MOHAMMADI	REZA DAD
20	VISHAKHA	VINIT KUMAR
21	VISALILA Y SANGTAM	YULISE SANGTAM
22	MD ZUBAYED SHIKDER	MD SOROAR SHIKDER
23	MD RAKIBUDDIN	MD DELOWAR HOSSAIN
24	VIKITO ACHUMI	Y VIHOTO ACHUMI
25	MD MUSTAFIZUR RAHMAN	MD MAZIBAR RAHMAN
26	SHUBHAM MONGA	SAMIR MONGA
27	SAKSHI	SHYAM LAL
28	MD FAHAD MIAH	TAZUMUDDIN SIKDER
29	REET BHATIA	RAJAT BHATIA
30	HASIBULLAH	ATIQULLAH
31	HARSHIT	ARUN KUMAR
32	SATRUDHAN KUMAR SAH	CHAUTHI SAH
33	NAND KISHOR MAHATO	RABINATH MAHATO
34	SYED HAIDAR ABBAS	SYED ALI NAQI ABDI
35	MR ANUZO NIENU	ZACUYI NIENU
36	DHEERAJ GARG	RAJIV GARG
37	SAHIL HANS	SANJAY KUMAR HANS
38	MOHAMMAD SHOAIB MOHMOODI	ABDUL JAMIL
39	BISMULLAH	AHMAD SHAH
40	ROSHAN KUMAR KUSHWAHA	BABU RAM PRASAD KUSHWAHA
41	SREE PAILOT CHANDDRA ROY	SREE BOMKIM CHANDDRA ROY
42	PARSOTTAM KUMAR	SHAMBHU PRASAD SINGH
43	MIR REYAZUDDIN	MIR QIAMUDDIN
44	ASHUTOSH MISHRA	DINESH MISHRA
45	ROHIT KUMAR	DESH RAJ
46	MD SAJIB HOSEN SHANTO	MD ABDUL MONNAF

47	MD. IKBAL KAWSAR LEMON	MD. ASAN ALI
48	ANGREJ SINGH	SUKHDEV SINGH
49	MST SANJIDA YEASMIN SATHI	MD ABUL KASHEM
50	MD ASRAF ALI	MD TALIB ALI
51	MD SOHANUR TASNIM	MD SELIM HOSSAIN
52	MD MOEENUDDIN	MD FARUK RAZA
53	AMAN SINGH	SUBHASH CHAND
54	MD NAZMUS SAKIB	MD SAMSUL ALAM
55	MANAV DEWAN	VIJAY KUMAR DEWAN
56	KOHLIBA C SANGTAM	CHOPONGSE SANGTAM
57	AHMAD SROSH	ZABIULLAH
58	AHMAD NABIL NESARI	NESAR AHMAD
59	KULDEEP	SURESH KUMAR
60	GAURAV	SHEORAM
61	KAPIL BENIWAL	NARAYAN SINGH
62	ARUN KUMAR KUSHWAHA	RAM PRASAD KUSHWAHA
63	AZIMUDDIN AHAMMED	MD NOZRUL ISLAM
64	ABDUL RAHMAN SAFI	ABDUL WALI SAFI
65	DIPESH KUMAR LAMA	AGAM LAL LAMA
66	ATIF AHMAD KHAN	NAUSHAD KHAN
67	ARIFULLAH ALIME	MOHAMMAD ALLAM
68	ARSHDEEP SINGH	BHAGAT SINGH
69	ABDUL GHAFOOR MUZAFAR	MOHAUDDIN
70	APURB RAJ	DILIP KUMAR SINGH
71	AJITABH	JITENDER
72	AARTI	RAMDHARI
73	AJAY	ISHWAR SINGH

- **Waiting list of the candidate in order of merit to be operative from the last date of joining of the first list candidate:** Not Applicable
- **List of the candidate who joined within the date, vacancy position in each category before operation of waiting list:** Not Applicable.

**15. Information of Infrastructure and Other Resources Available:**

- **Number of Class Rooms and size of each**

S.N	Class Room	Room No.	Area
1.	Classroom-1	A-101	82.8
2.	Classroom-2	A-102	82.8
3.	Classroom-3	A-202	82.8
4.	Classroom-4	A-205	51.78
5.	Classroom-5	A-210	82.71
6.	Classroom-6	A-213	84
7.	Classroom-7	A-301	82.8
8	Classroom-8	A-302	82.8
9	Classroom-9	A-304	84
10	Classroom-10	A-310	82.68
11	Classroom-11	A-314	81.08
12	Classroom-12	A-401	82.8
13	Classroom-13	A-402	82.8
14	Classroom-14	A-408	67.57
15	Classroom-15	A-409	69

- **Number of Tutorial rooms and size of each**

S.N	Tutorial Room	Room No.	Area
1.	Tutorial Room-1	A-111	54.11

- **Number of Laboratories and size of each**

S.N	Laboratory	Room No.	Area
1.	Laboratory-1	A-107	143.27

2.	Laboratory-2	A-116	115.62
3.	Laboratory-3	A-117	67.27
4.	Laboratory-4	A-201	82.8
5.	Laboratory-5	A-207	67.47
6.	Laboratory-6	A-208	102.36
7.	Laboratory-7	A-211	98.85
8.	Laboratory-8	A-215	86
9.	Laboratory-9	A-216	86
10.	Laboratory-10	A-307	67.82
11	Laboratory-11	A-309	103.39
12	Laboratory-12	A-315	103.82
13	Laboratory-13	A-317	67.57
14	Laboratory-14	A-404	56.59
15	Laboratory-15	A-407	102.7
16	Laboratory-16	A-410	69
17	Laboratory-17	A-411	88.83
18	Laboratory-18	A-412	41.11
19	Laboratory-19	A-413	53.51
20	Laboratory-20	A-414	41.22
21	Laboratory-21	A-415	68.61
22	Laboratory-22	LB-01	74.02
23	Laboratory-23	LB-02	62.71
24	Additional Workshop	LB-07	200
25	Workshop	W-01	227.6
26	Computer Laboratory	A-312	88.83

- **Number of Drawing Halls with capacity of each**

S.N	Drg. Hall	Room No.	Area	Capacity
1.	Drawing Hall	A-403	157.4	66

- **Number of Computer Centres with capacity of each**

S.N	Computer Center	Room No.	Area	Capacity
1.	Computer Center	A-104	153.1	120

- **Central Examination Facility, Number of rooms and capacity of each**

S.N	Exam Center	Room No.	Area
1.	A-204	Exam Control Office	55.21

- **Barrier Free Built Environment for disabled and elderly persons-Available**
- Occupancy Certificate
  
- Fire and Safety Certificate
  
- **Hostel Facilities:** Hostel of 40 Rooms of Capacity 160 is available in the institute.

### Library

- **Number of Library books/ Titles/ Journals available (program-wise)**

S.N	Programme	No. of Titles	No. of Books
1.	Applied Science	220	1587
2.	Civil Engg.	157	2048
3.	Mechanical Engg.	232	3004
4.	Electrical Engg.	09	1009
5.	CNC	51	752

6.	Tool/Design	07	106
7.	CAD/CAM	06	91
	<b>Total</b>	<b>682</b>	<b>8597</b>

- **List of online National/ International Journals subscribed:** NIL
- **E- Library facilities:**

1. National Digital Library Membership
2. DELNET Membership
3. Swayam NPTEL Membership
  - **Laboratory and Workshop**

**List of Major Equipment/Facilities in each Laboratory/ Workshop**

**LIST OF EQUIPMENT (SOM LAB)**

<b>SR. No.</b>	<b>NAME OF EQUIPMENT</b>	<b>QTY</b>
1	ROCKWELL-BRINNEL HT MACHINE (RASN-B)	01
2.	VICKERS HT MACHINE(VM-50)	01
3.	WINCH CRAB DOUBLE PURCHASE	01
4.	SHEAR FORCE APPARATUS	01
5.	WORM &WORM WHEEL -TRIPPLE	01
6	BENDING MOMENT APPARATUS	01
7	MOMEMT OF INERTIA OF LYWHEEL	01
8	UNIVERSAL TESTING MACHINE	01
9	IZOD CHARPY IMPACT TESTING M/C	01
10	TORSION TESTING MACHINE	01
11	SPRING TESTING MACHINE	01
12	FATIGUE TESTING MACHINE	01

## LIST OF EQUIPMENT (KOM LAB)

SR. NO.	NAME OF EQUIPMENT	QTY
1.	BELL CRANK LEVER	01
2.	TORSION APPARATUS	01
3.	SINGLE STAGE HELICAL GEAR	01
4.	SINGLE STAGE SPIRAL GEAR	01
5.	HERRINGBONE GEARS	01
6.	DIFFERENTIAL GEAR	01
7.	CAM&FOLLOWER SET OF 5	01
8.	BOX&MUFF COUPLING	01
9.	CAM ANALYSIS APPARATUS	01
10.	COMBINED COIL,FLAT &V-BELT FRICTION APPARATUS	01
11.	COMBINED COMPRESSION &EXPANSION SPRING APPT.	01
12.	SCREW EFFICIENCY APPARATUS	01
13.	COMBINED INCLINED PLANE &FRICTION SLIDE APPARATUS	01
14	THREE STAGE SPUR GEAR	01
15	RACK &PINION	01
16	EPICYCLE GEAR	01
17	EPICYCLE GEAR (SUN &PLANET)	01
18	CYCLOIDAL GEAR	01
19	REVERSING GEAR	01
20	WORM GEAR	01
21	TRAIN OF GEAR WHEEL (COMP)	01
22	CRANK&CONNECTING ROD MD.	01
23	FOUR BAR LINK MECHANISM	01
24	SCOTCH YOKE MECHANISM	01
25	KINAMETICS PAIRS	01
26	CRANK SLOTTED LEVER APPT.	01
27	INVERSION OF SINGLE SLIDE CRANK MECHANISM	01
28	INVERSION OF DOUBLE SLIDE CRANK MECHANISM	01
29	SELLER COUPLING	01
30	UNIVERSAL COUPLING	01
31	HOOKS COUPLING	01
32	FLANGED COUPLING	01
33	OLDHAM COUPLING	01
34	FRICTION WHEEL DRIVE	01
35	CHAIN DRIVE	01
36	GENEVA DRIVE	01
37	PAWL & RATCHET ROD MODEL	01
38	ELLIPSE TRACER MODEL	01
39	PECULIER LINK DRIVE MODEL	01
40	CRANK SHAFT TO SLIDER MECH.	01
41	FLEXIBLE COUPLING	01
42.	SLIDE CRANK MECHANISM	
42(a)	RECIPROCATING ENGINE TYPE	1
42 (b)	WITHWORTH QUICKRETURN TYPE MECHANISM	1

42 ©	OSCILLATING ENGINE TYPE	1
43	PENTOGRAPH MECHANISM	1
44	WATT MECHANISM	1
45	GEAR BOX MODEL WITH CLUTCH	1

### LIST OF EQUIPMENT (THEMODYNAMICS LAB)

SR. NO.	NAME OF EQUIPMENT	QTY
1.	MODEL LANCASHIRE BOILER	01
2.	MODEL OF CORNISH BOILER	01
3.	MODEL BABCOCK & WILCOX BOILER	01
4.	MODEL OF COCHRAN BOILER	01
5.	SECTIONAL WORKING MODEL OF 2 STROKE PETROL ENGINE	01
6.	SECTIONAL WORKING MODEL OF 4 STROKE PETROL ENGINE	01
7.	SECTIONAL WORKING MODEL OF 2 STROKE DIESEL ENGINE	01
8.	SECTIONAL WORKING MODEL OF 4 STROKE DIESEL ENGINE	01
9.	LEVER SAFETY VALVE	01
10.	SPRING LOADED SAFETY VALVE	01
11.	DEAD WEIGHT SAFETY VALVE	01
12.	WATER GAUGE MODEL	01
13.	STOP VALVE HOPKINSON TYPE	01
14.	FEED CHECK VALVE	01
15.	PRESSURE GAUGE	01
16.	BLOW OFF COPCK	01
17.	FUSIBLE PLUG	01
18.	SUGDEN SUPER HEATER	01
19.	STEAM ENGINE MODEL WITH A BOILER	01
20	REDWOOD VISCOMETER NO. 1-ELECTRICALLY HEATED WITH VOLTAGE VARRIER COPPER COIL	01
21	CLEAVELAND FLASHPOINT & FIRE POINT APPARATUS –VOLTAGE VARRIER COPPER COIL COMBINE MODEL	01
22	AIR PREHEATER	01
23	SURFACE CONDENSER	01
24	EJECTOR CONDENSER	01
25	PURE REACTION & HERO'S STEAM TURBINE	01
26	NESTLER BOILER	01
27	4 STROKE 4 CYLINDER DIESEL ENGINE-MOTORISED	01
28	MODEL OF LOCOMOTIVE BOILER	01
29	MODEL OF BENSON BOILER	01
31.	MODEL OF LOEFFLER BOILER	01
32.	MODEL OF VALOX BOILER	01
33	MODEL OF STIRLING BOILER	01
34	STEAM INJECTOR	01
35	GREEN ECONOMISER	01
36	MODEL OF STEAM ENGINE	01
37	JET CONDENSER- PARALLEL FLOW	01

38	JET CONDENSER –COUNTER FLOW	01
39	EVAPORATIVE CONDENSER	01
40	DE-LEVEL TURBINE	01
41	PRESSURE &VELOCITY COMPOUNDED STEAM TURBINE	01
42	AIR OR STEAM PRESSURE TURBINE	01

### **LIST OF EQUIPMENT (DOM LAB)**

<b>SR. NO.</b>	<b>NAME OF EQUIPMENT</b>	<b>QTY</b>
1.	WHIRLING OF SHAFT &DIGITAL TECHOMETER	01
2.	MOTORISED GYROSCOPE &DIGITAL TECHOMETER	01
3.	STATIC&BALANCING DEMONSTRATOR	01
4.	EPICYCLIC GEAR TRAIN APPARATUS WITH DIGITAL RPM INDICATOR	01
5.	UNIVERSAL GOVERNOR APPARATUS &DIGITAL TECHOMETER	01
6.	COROLLI'S COMPONENT OF ACCELERATION APPARATUS WITH DIGITAL RPM INDICATOR	01

### **LIST OF EQUIPMENT (FLUID MECHANICS LAB)**

<b>SR. NO.</b>	<b>NAME OF EQUIPMENT</b>	<b>QTY</b>
1.	DISCHARGE THROUGH VENTURIMETER & ORIFICE	01
2.	IMPACT OF JET ON VANES	01
3.	DISCHARGE OVER NOTCHES	01
4.	LOSSES DUE FRICTION IN PIPELINES	01
5.	BERNOULLI'S THEOREM APPARATUS	01
6.	FLOW OVER ORIFICE & MOUTHPIECE	01
7.	METACENTRIC HEIGHT APPARATUS	01
8.	FORCED VERTICE APPARATUS	01
9.	LOSSES DUE TO PIPE FITTING, SUDDEN ENLARGEMENT & CONTRACTION	01
10.	REYNOLDS APPARATUS	01

### **LIST OF EQUIPMENT (FLUID MACHINES LAB)**

<b>SR. NO.</b>	<b>NAME OF EQUIPMENT</b>	<b>QTY</b>
1.	RECIPROCATING PUMP TEST RIG	01
2.	GEAR PUMP TEST RIG	01
3.	CENTRIFUGAL PUMP TEST RIG	01
4.	FRANCIS TURBINE TEST RIG	01
5.	HYDRAULIC RAM TEST RIG	01
6.	PELTON TURBINE TEST RIG	01
7.	KAPLAN TURBINE TEST RIG	01
8.	TORQUE CONVERTER	01

## LIST OF EQUIPMENT (HEAT TRANSFER LAB)

SR. NO.	NAME OF EQUIPMENT	QTY
1.	THERMAL CONDUCTIVITY OF INSULATING POWDER	01
2.	THERMAL CONDUCTIVITY OF LIQUIDS	01
3.	HEAT TRANSFER IN FORCED CONVECTION	01
4.	PARALLEL FLOW/ COUNTER FLOW HEAT EXCHANGER	01
5.	THERMAL CONDUCTIVITY OF METAL ROD	01
6.	HEAT TRANSFER THROUGH COMPOSITE WALL	01
7.	STEFAN BOLTZMANN'S APPAARATUS	01
8.	POOL BOILING APPARATUS	01
9.	PIN FIN APPARATUS	01

## LIST OF EQUIPMENT (THERMAL ENGG. LAB)

SR. NO.	NAME OF EQUIPMENT	QTY
1.	4 CYLINDER 4 STROKE <b>PETROL</b> ENGINE TEST RIG	01
2.	DOUBLE STAGE AAIR COMPRESSOR TEST RIG WITH KIRLOSKAR MAKE COMPRESSOR	01
3.	4 CYLINDER 4 STROKE WATER COOLED <b>DIESEL</b> ENGINE TEST RIG	01
4.	1 CYLINDER 4 STROKE WATER COOLED DIESEL ENGINE	01
5	CENTRIFUGAL BLOWER TEST RIG	01

## LIST OF EQUIPMENT (REFRIGERATION &AIR CONDITIONING LAB)

SR. NO.	NAME OF EQUIPMENT	QTY
1.	VAPOUR COMPRESSION REFRIGERATION TEST RIG	01
2.	WATER COOLER TEST RIG	01
3.	ELECTROLUX- VAPOUR ABSORPTION REFRIGERATION TEST RIG	01
4.	COOLING TOWER TEST RIG	01
5.	REFRIGERATION & AIR CONDITIONING CUT MODEL BOARD	01
6.	AIR CONDITIONING TEST RIG	01
7.	ICE PLANT TUTOR	01
8.	SECTIONAL CUT MOEDLS OF COMPRESSORS	03
9.	SLING PSYCHROMETER	01
10.	HYGROMETER	01
11	WET/DRY THERMOMETER	01
12	HYDROMETER	01
13	BAROMETER	01

### **LIST OF EQUIPMENT (TRIB. & MECH. VIBRATION LAB)**

SR. NO.	NAME OF EQUIPMENT	QTY
1.	UNIVERSAL VIBRATION APPARATUS	01
2.	JOURNAL BEARING APPARATUS	01

### **LIST OF EQUIPMENT (MEASUREMENT & CONTROL LAB)**

SR. NO.	NAME OF EQUIPMENT	QTY
1.	STRAIN GUAGE TRAINER KIT	01
2.	LVDT KIT TRAINER	01
3	INDUCTIVE PICKUP	01
4	LDR CHARACTERSTIC APPARATUS	01
5	CAPATIVE PICKUP	01
6	RTD TRAINER KIT	01
7	THERMOCOUPLE TRAINER KIT	01
8	PRESSURE MEASUREMENT USING STRAIN GAUGE	01
9	THERMISTER CHARACTERSTIC APPARATUS	01

## List of Equipment for Electrical Technology Lab

### LIST OF EQUIPMENT FOR ELECTRICAL WORKSHOP (EE-217N)

S. No	Name of Equipment	Qty.
1.	Wire Striper	1
2.	Nose Plier	1
3.	Plier	2
4.	Screw Driver 824	2
5.	Screw Driver 825	1
6.	Tester 814	1
7.	Hammer 200 Gm.	1
8.	Round file	1
9.	Smooth file	1
10.	Wooden file	1
11.	Hacksaw Iron	1
12.	Bench vice	1

13	<i>Star Delta Starter</i>	1
14.	Fluorescent Tube	2
15.	HPMV Lamp	1
16.	Sodium Lamp	1
17.	Press(Iron light weight)	1
18.	Lamp Holder	2
19.	Switch 16A,240V	2
20.	Socket 16A, 240V	1
21.	Stair case wiring kit(wooden board)	.....
22.	Batten, cleat ,casing-capping & Conduit wiring setup	.....
23.	Insulation tester	1
24.	Digital Earth Tester	1
25.	C.T: 30/5A	1
26.	3 Phase HPL Multifunction Meter	1
27.	Single phase Energy meter Digital 0-60A	1
28.	Electric Drill Machine , Size 1/2 inch	1
29.	Thimble Crimping Tool 50 mm <sup>2</sup>	1

**LIST OF THE EQUIPMENTS FOR :****A) ELECTRICAL MACHINES-I LAB (EE-213N)****B) ELECTRICAL MACHINES-II LAB ( EE-218N)**

Srl. no	Name of Equipment	Qty
1	MG Set Comprising DC Shunt Motor, DC Shunt Generator	1
2	1 $\Phi$ , Induction Motor Capacitor Start	1
3	AC Squirrel Cage Induction Motor 3 $\Phi$ , 3HP, 140 RPM	1
4	1HP, 1500RPM, 230V, Induction Motor	1
5	1MG Set Comprising DC shunt Motor, DC Compound Generator	1
6	AC Squirrel cage 3 $\Phi$ Induction motor 3HP,	1
7	DC Motor for Ward Leonard method	1
8	Synchronous Motor 3HP with Shunt Generator 2KW 1500RPM, 4A, 415V	1
9	Shunt Motor Alternator set 2KVA, 3HP 1500RPM Arm. 220V	1
10	M.I. Voltmeter 300-600V	2
11	M.I. Voltmeter 150-300V	2
12	Wattmeter 2.5/5A, 150/300/600V	4
13	Wattmeter 5/10A, 75-150-300V	4
14	AC Ammeter Digital 0-20A	4
15	DC Ammeter Digital 0-20A	2
16	AC Voltmeter Digital 0-600V	4
17	DC Voltmeter Digital 0-500V	2
18	100 $\Omega$ , 5A Rheostat	4
19	500 $\Omega$ , 1A Rheostat	2
20	3 $\Phi$ 470V, 15A Variac	2
21	1 $\Phi$ 270V, 10A Variac	2
22	3 Point DC Starter	1
23	SCR Drive 415V, 3 $\Phi$ Rectifier	1

24	M.I. Ammeter Meco make 0-10/20A	2
25	DC Ammeter 0-1/2A	1
26	Voltmeter Meco make 0-30/60V	1
27	PMC Ammeter 0-10/20A	2
28	MI Ammeter 0-1/2A	2
29	DC Voltmeter 0-150/300V	2
30	AC Voltmeter 0-300/600V	4
31	DC Digital Ammeter 0-1A	5
32	DC Digital Ammeter 0-25 V	2
33	3 $\Phi$ Resistive Load	1
34	3 $\Phi$ Inductive Load	1
35	3 $\Phi$ Capacitive Load	1
36	3 $\Phi$ Variac 0-470V	1
37	300 $\Omega$ ,1A Rheostat	2
38	10 $\Omega$ ,10A Rheostat	2
39	50 $\Omega$ , 4A Rheostat	3
40	500 $\Omega$ , 2A Rheostat	3
41	1089 $\Omega$ , 0.6A Rheostat	1
42	Tachometer 09999	1
43	3Point DC Starter	1
44	Function Generator 1Mhz	1
45	500 $\Omega$ , 1A Rheostat	1
46	DC Analog Ammeter	1
47	Variac 3 phase 15A0-470V	1
48	Resistive load in 8 steps 2KW 250V	2
49	Variac 1 Phase 10Amp. 0-270V	2
50	Decade Inductance Box 4 dial 11.11mh	1
51	Digital Tachometer non contact type	1
52	Dynamometer type Wattmeter 1 phase LPF 75-150-300V,0.5A/1A	3
53	Dynamometer type wattmeter 1 phase UPF 150-	6

	300-600V 5A/10A	
54	Decade resistance Box 11.11 K ohm	1
55	Decade capacitor box 4 dial 11.11mfd.	1
56	Portable M.I. Voltmeter 0-150/300V	4
57	Portable M.I. Voltmeter 0-300-600V	2
58	Portable M.I. Voltmeter 0-30-60V	3
59	Portable M.I. Ammeter 0-1-2A	8
60	Single phase T/F 1KVA 230V	3
61	Single phase T/F 1KVA 230V, 50%,86% 100%	2
62	Plier 200mm Taparia	1
63	Nose Plier 150mm Taparia	1
64	Wire Stepper Taparia W506	1
65	Screw driver set Taparia 821	1
66	Screw driver 827 no.	1
67	Hammer 765 pye	1
68	Hacksaw Iron 300mm	1
69	Drill bit set	1
70	Drill 10mm IT	1
71	File 250mm wood JK	1
72	Dile 300mm Barbernt JK	1
73	File Round 250mm	1
74	Screw Driver Taparia 824	1
75	Measuring tape 3m	1
76	Soldering iron 125W	1
77	Soldering Iron 35 W	1
78	Locks	4
79	Key set	1

## LIST OF EQUIPMENT FOR CONTROL SYSTEM LAB (EE-313N)

S. No	Name of Equipment	Qty.
1.	Kit to study DC Position Servo Machine Trainer	1
2.	Kit to study Liner System Simulator	1
3.	Kit to study Control of DC motor	1
4.	Kit to study Stepper Motor Characteristics	1
5.	Kit to study PID Controller Kit	1
6.	Kit to study Compensation Network	1
7.	Kit to study Light Intensity Control	1
8.	Kit to study CRO 20 MHz Dual Channel 2 Trace	3
9.	Function Generator 2 MHz With Frequency Counter	1

## LIST OF EQUIPMENT FOR POWER SYSTEM LAB (EEN-318N)

S. No	Name of Equipment	Qty.
1	Testing Panel for T/F Oil dielectric strength	1
2	Panel to draw characteristic of thermal over load relay	1
3	Panel to Perform experiment to draw operating characteristic of IDMT Relay	1
4	Panel to Perform following Exp. i) To Find ABCD Parameters ii) To study Ferranti effect of transmission line iii) To find zero sequence component of three phase line	1
5	Panel to Perform exp. Testing of Current Transformer	1

## List of Equipments in Communication Lab

S. No.	Name of Equipments	Quantity
1.	BALANCED MODULATOR/DEMULATOR	02
2.	FREQUENCY MODULATOR/DEMULATOR	02
3.	PULSE AMPLITUDE MODULATOR/DEMULATOR	02
4.	PULSE WIDTH MODULATOR/DEMULATOR	02
5.	PULSE POSITION MODULATOR/DEMULATOR	02
6.	ACTIVE FILTERS	02

7.	AMPLITUDE MODULATOR/DEMODULATOR	02
8.	SAMPLING THEOREM AND RECONSTRUCTION	02
9.	CUTTER	01
10.	PLIER	01
11.	NOSE-PLIER	01
12.	SOLDERING IRON	01
13.	SOLDERING IRON STAND	01
14.	SCREW DRIVER SET	01
15.	MULTIMETERS	02
16.	AM TRANSMITTER TRAINER	02
17.	AM RECEIVER TRAINER	02
18.	CATHODE RAY OSCILLOSCOPE	06
19.	FUNCTION GENERATORS	02
20.	FUNCTION GENERATORS	02
21.	VOLTAGE STABILIZER	01
22.	EXTENSION BOARDS	08
<b>S. No.</b>	<b>Name of Equipments</b>	<b>Quantity</b>
23.	DIGITAL IC TRAINER	02
24.	LOGIC GATES USING TTL	02
25.	MULTIPLEXER/DEMULTIPLEXER	02
26.	VOLTAGE COMPARATOR	02
27.	FLIP-FLOP TRAINER	02
28.	4-BIT SHIFT REGISTER	02
29.	4-BIT COUNTER (SYNC. & ASYNC)	03
30.	ENCODER-DECODER CIRCUITS KIT	03

## List of Equipments of Semiconductor Devices & Circuits Lab

S. No.	Name of Equipments	Quantity
1.	SOLDERING IRON	07
2.	SOLDERING IRON STAND	04
3.	PLIER	01
4.	CUTTER/WIRE STRIPPER	03
5.	NOSE-PLIER	02
6.	SCREW DRIVER SET	01
7.	VOLTAGE STABILIZER	01
8.	DIGITAL MULTIMETERS	10
9.	DIGITAL MULTIMETERS	04
10.	EXTENSION BOARDS	03
11.	EXTENSION BOARDS	05
12.	CATHODE RAY OSCILLOSCOPE	05
13.	FUNCTION GENERATORS	05
14.	BREAD BOARDS (with variable PS)	06
15.	SOLAR CELL CHAR. KIT	02
16.	ACTIVE FILTERS	02
17.	SCR CHAR.	02
18.	MOSFET CHAR.	02
19.	TRANSISTOR PUSH-PULL AMPL.	02
20.	P-N JUNCTION CHARAC. KIT	01
21.	P-N JUNCTION CHARAC. KIT	01
22.	RECTIFIER KIT(HALF& FULL WAVE)	01
23.	CLIPPING & CLAMPING KIT	01
24.	ZENER DIODE STABILIZER CHARAC. KIT	01
25.	TRANSISTOR CHARACTERISTICS KIT	01
26.	TRANSISTOR CE CHARAC. KIT	01

27.	TWO STAGE RC COUPLED AMP. KIT	01
28.	FET CHARACTERISTICS	01
29.	MOSFET CHAR.	01
30.	UJT CHARACTERISTICS	01
31.	UJT CHARACTERISTICS	01
32.	LOGIC GATES USING SIX TTL GATES	01
33.	PNP TRANSISTORS KIT	01

### **List of Equipments of Digital Electronics Lab**

Sr. No	Name of Equipments	Quantity
1	DIGITAL IC TRAINER	02
2	LOGIC GATES USING TTL	02
3	MULTIPXER/DEMULTIPLEXER	02
4	VOLTAGE COMPARATOR	02
5	FLIP-FLOP TRAINER	02
6	4-BIT SHIFT REGISTER	02
7	4-BIT COUNTER (SYNC. & ASYNC)	03
8	ENCODER-DECODER CIRCUITS KIT	03

**List of  
Electrical  
Instrumentation**

S. No.	Name of Equipments	Quantity
1.	MAX WELL INDUCTANCE BRIDGE	01
2.	SCHERING BRIDGE	01
3.	DE-SAUTY'S BRIDGE	01
4.	WEIN FREQUENCY BRIDGE	01
5.	KELVIN DOUBLE BRIDGE	01
6.	CROMPTON POTENTIOMETER	01
7.	HEY'S BRIDGE	01
8.	B-H CURVE KIT	01
9.	DIGITAL INSULATION TESTER	01

**Equipment in  
Measurement &  
Lab**

**List of equipment  
Lab**

**in Signal & System**

S. No.	Name of Equipments	Quantity
1.	CATHODE RAY OSCILLOSCOPE	06
2.	FUNCTION GENERATOR	03
3.	FOURIER ANALYSIS OF SQUARE WAVE /CLIPPING WAVE	01
4.	FILTERS RC(LOW,HIGH,BAND)	01
5.	DIGITAL MULTIMETERS	02
6.	VOLTAGE STABILIZER	01
7.	EXTENTION BOARDS	08
8.	EXTENTION BOARDS	03
9.	SAMPLING & RECONSTRUCTION KIT	02

**List of Equipment  
Lab**

Sr. No	Name of Equipments	Quantity
1	HARDWARE ITEM FOR VHDL LAB	04
2	SOFTWARE ITEM FOR VHDL LAB	01
3	DSP TRAINER KIT	01

**for VHDL & DSP**

1.	8085 MICROPROCESSOR TRAINER KIT with Key Boards	08
2.	8086 MICROPROCESSOR TRAINER KIT with Key Boards	08
3.	8255-PPI STUDY/INTERFACING CARD	03
4.	STEPPER MOTOR INTERFACING CARD	01
5.	KEY BOARDS	05

**List of  
Equipment in  
MIPROCESSOR Lab**

<b>LIST OF EQUIPMENTS</b>		
<b>SURVEY LAB</b>		
SR.NO.	NAME OF INSTRUMENT	QUANTITY
1	DUMPY LEVEL WITH ALL ACCESSORIES	2
2	AUTO LEVEL	1
3	RANGING ROD	15
4	METRIC CHAIN	3
5	PRISMATIC COMPAS	3
6	LEVELING STAFF	2
7	PLANE TABLE	2
8	THEODOLITE	2
9	AROW	10

<b>TRANSPORTION LAB</b>		
1	AGREGATE IMPACT TEST	1
2	CRUSHING STRENGTH TEST ON AGGREGATES	1
3	PENETRATION TEST ON BITUMEN	1
4	VISCOSITY TEST BITUMENOUS MATERIAL	1
5	SPECIFIC GRAVITY OF BITUMEN	1
6	STRIPPING TEST ON AGGREGATE	1
7	SPECIFIC GRAVITY AND WATER ABSORPTION TEST ON AGGREGATE	1
8	ELONGATION AND FLAKINESS INDEX OF AGGREGATE	1

<b>STRUCTURE LAB</b>		
1	ELASTIC PROPERTIES OF DEFLECTED BEAM	1
2	EXPERIMENTAL BEHAVOUR OF STRUTS	1
3	(3)THREE HINGED ARCH	1
4	DISPLACEMENT OF CURVED MEMBERS	1
5	HORIZONTAL AND VERTICAL DEFLECTION( TRUSS)	1
6	VARIFICATION OF MAXWELL RECIPROCAL THEORAM BEAM	1
7	(2)TWO HINGED ARCH	1
8	CANTILEVER BEAM	1
9	ELASTICALLY COUPLED BEAM	1
10	SWAY IN PORTAL FRAME	1
11	3 BAR PIN JONTEED TRUSS	1

<b>CONCRETE</b>		
1	VICAT,S APPARATUS	1
2	SIEVE SET FINE AGGREGATE	1
3	SIEVE SET COARSE AGGREGATE	1
4	LE-CHATELIER,S APPARATUS	1
5	COMPACTION FACTOR	1
6	VEE-BEE APPARATUS	1
7	SIEVE SHAKER	1
8	ELECTRIC HEATED OVEN	1
9	WT.BELENCE	1

<b>GEO.TECH LAB</b>		
1	SIEVE IN SET	1
2	PLASTIC LIMIT	1
3	SAND REPLACEMENT APPARATUS	1
4	GRAIN SIZE ANALYSIS HYDROMETER METHOD	1
5	SHRINKAGE LIMIT	1

6	CONSOLIDATION TEST APPARATUS	1
7	DYNAMIC CONE PENETRATION APPARATUS	1
8	MOULD	5
9	CTM	1

<b>LAB NO. 300(LAPTOP LAB)(NEURAL NETWORK+ULP LAB)</b>		
<b>SR. No.</b>	<b>NAME OF EQUIPMENT</b>	<b>QTY</b>
1	COMPAQ 510 LAPTOPS	24
2	ADAPTOR	24
3	PRINTER	1
4	LOCKS	24

<b>LAB NO. 301 (LAPTOP LAB)(WEBTECHNOLOGY+WEB ENGINEERING)</b>		
<b>SR. No.</b>	<b>NAME OF EQUIPMENT</b>	<b>QTY</b>
1	COMPAQ 510 LAPTOPS	24
2	ADAPTOR	24
3	PRINTER	1
4	LOCKS	24

<b>LAB NO. 302(DBMS+CN+JAVA)</b>		
<b>SR. No.</b>	<b>NAME OF EQUIPMENT</b>	<b>QTY</b>
1	COMPAQ 510 LAPTOPS	24
2	ADAPTOR	24
3	PRINTER	1
4	LOCKS	24

<b>LAB NO. A-104(COMPUTER CENTRE)(FOCP LAB+DATA STRUCTURE)</b>		
<b>SR. No.</b>	<b>NAME OF EQUIPMENT</b>	<b>QTY</b>
1	DESKTOP	49
2	MOUSE	49
3	KEYBOARD	49
4	PRINTER	1

<b>LAB NO. -A-201(SIMULATION AND SOFTWARE ENGG. LAB)</b>		
<b>SR. No.</b>	<b>NAME OF EQUIPMENT</b>	<b>QTY</b>

1	DESKTOP	18
2	MOUSE	18
3	KEYBOARD	18
4	PRINTER	1

<b>LAB NO. -A-411(IF+DAA)</b>		
<b>SR. No.</b>	<b>NAME OF EQUIPMENT</b>	<b>QTY</b>
1	DESKTOP	15
2	MOUSE	15
3	KEYBOARD	15
4	PRINTER	1

<b>LAB NO. -A-411(MBA LAB)</b>		
<b>SR. No.</b>	<b>NAME OF EQUIPMENT</b>	<b>QTY</b>
1	DESKTOP	25
2	MOUSE	25
3	KEYBOARD	25
4	PRINTER	1

<b>LAB NO. -A-312(PROJECT LAB)</b>		
<b>SR. No.</b>	<b>NAME OF EQUIPMENT</b>	<b>QTY</b>
1	DESKTOP	20
2	MOUSE	20
3	KEYBOARD	20
4	PRINTER	1

<b>LIST OF PHYSICS LAB EQUIPMENT</b>		
<b>S.NO</b>	<b>NAME OF APPARATUS</b>	<b>QUANTITY</b>
1	NEWTON RING SETUP	2
2	OPTICAL BENCH	2
3	OPTICAL NEEDLES	4
4	PRISM AND GLASS SLAB	20
5	PLANE MIRRORS	10
6	SODIUM LAMP	10
7	CONVEX LENSES	10
8	BI QUARTZ POLARIMETER	2
9	MERCURY LAMP WITH WOODEN BOX	3
10	SONOMETER	9

11	STEPDOWN TRANSFORMER	4
12	ELECTROMAGNET	2
13	EXTENSION	1
14	SLOTTED WIGHT	9
15	GALVANOMETR	13
16	VOLTMETER	5
17	PHYSICAL WEIGHT BOX	8
18	1 WAY KEY	4
19	2 WAY KEY	4
20	RESISTANCE BOX	20
21	PO BOX	2
22	HIGH RESISTANCE SET UP(0.5 MOHM)	2
23	BATTERY ELIMINATOR (12V, 2 AMP)	5
24	POTRAITS	4
25	GALVANOMETR TO AMMETER	1
26	CARRY FOSTER SETUP	2
27	DESAUTY BRIDGE	3
28	PLATINUM RESISTANCE THERMOMETER	2
29	IONISATION POT TUBE	2
30	CIRCULAR PLANE MIRROR	5
31	HEATER	1
32	POLARIMETER TUBE	4
33	PLANO CONVEX LENS	4
34	THERMOMETER	3
35	AUDIO OSCILLATOR	3
36	MAGNIFYING GLASS STEEL FRAME	1
37	LEAD ACCUMULATED BATTERY	4
38	HORSE SHOE MAGNET	3
39	BATTERY CHARGER	1
40	B-H CURVE KIT	1
41	FOUR PROBE METHOD	1
42	BALLASTIC GALVANOMETER	1
43	GALVANOMETER TO VOLTMETER	1
44	CRO	1
45	DIGITAL MULTIMETER	2
46	DC REGULATED POWER SUPPLY	5
47	DC BATTERY	3
48	DC SUPPLY	
49	DIFFRACTION GRATING & GRATING	3
50	FLASHING AND QUENCHING APPARATUS	3
51	IONISATION POTENTIAL OF MERCURY KIT	2
52	JOKEY	4
53	MILIAMMETER	2

54	AMMETER	2
55	MICROAMMETER	2
56	METER SCALE	1
57	PN JUNCTION APPARATUS	3
58	PLANKS CONSTANT KIT	1
59	PLATINUM RESISTANCE APPARATUS	2
60	VERNIER CALLIPER	25
61	RESISTANCE COIL	4
62	RHEOSTAT	3
63	STOP WATCH	2
64	SCREW DRIVER SET	1
65	SPECTRO METER	
66	STEURARTGEIR APPARATUS	1
67	SODIUM LAMP TRANSFORMER	7
68	ULTRASONIC SPECTROMETER	1
69	SONOMETER WEIGHT BOX	9
70	PHYSICAL BALNCE BOX	1
71	TRAVELLING MICROSCOPE	2
72	ZENER DIODE APPARATUS	2
73	GRIFFTH CUM CARREY FOSTER BRIDGE	1
74	ANALOG MULTIMETER	2

#### List of equipments of chemistry lab

S.No.	Name of equipment	Quantity
1	Conductivity Meter	3
2	Chemical Balance	1
3	Muffle Furness	1
4	Redwood Viscometer	2
5	Dessicator	2
6	Abbe Refracto Meter	1
7	Pensky marten Appratus	1
8	Electrical Water Bath	2
9	Ph Meter	3
10	Oven	1
11	Burette stand	30
12	Tripod stand	30
13	Test tube stand	10
14	Pipette stand	2
15	Ostwald Viscometer	25
16	Stalagmometer	25

- **List of Experimental Setup in each Laboratory/ Workshop**

- **Computing Facilities:**
- **Internet Bandwidth:** 32 MBPS
- **Number and configuration of System:** 140
- **Total number of system connected by LAN:** 140
- **Total number of system connected by WAN:** 02
- **Major software packages available:**

S.N	Software
1.	Apache Tomcat, User interface for running JAVA
2.	Adobe Reader Version 9.1 for reading PDF files.
3.	Oracle Software
4.	Library Management Software
5.	Bar Code generating Software
6.	PRO Engineering Wildfire 5.0
7.	Mata Cad
8.	Auto Cad
9.	Share X, Screen Shot Tool
10.	Two Code Editing Application
11.	PhotoScape
12.	Hadoop and Matlab
13.	Google Chrome
14.	Core FTP

15.	Bit Torrent
16.	Kaspersky/DSS Killer/Avira Antivirus
17.	Internet Download Manager
18.	Mailbird Email Client Application Software
19.	Instant Messaging Application
20.	Note Making Application Software Google Keep
21.	Installed Web Browser called Microsoft Edge
22.	Purchased/Installed 2 Office suits, Libre Office, Google Docs

- **Special purpose facilities available**

S.N	Software
1.	Wordpress
2.	Android Studio
3.	Internet Download Manager

- **Innovation Cell:** No
- **Social Media Cell:** Social media cell of following members is active on various social media platforms such as Facebook, Whatsapp, Instagram, LinkedIn etc.

S.N	Name	Position	Designation
1.	Dr. Sagar Gulati	Member	Asst. Professor
2.	Mr. Himanshu Kashyap	Member	Asst. Professor

3.	Mr. Gurucharan	Member	Asst. Professor
4.	Mr. Karan	Member	Asst. Professor

- Compliance of the National Academic Depository (NAD), applicable to PGCM/ PGDM Institutions and University Departments: **Not Applicable**
- **List of facilities available**
- **Games and Sports Facilities**

Both Indoor and Outdoor Games/Sports Facilities includes

S.N	Facilities
1.	Cricket ( Ground and Kits Available)
2.	Football( Ground and Kits Available)
3.	Snookers
4.	Badminton
5.	Volleyball
6.	Chess

- **Extra-Curricular Activities**

Lectures with Industry partnership organised till Date in session 2018-19				
Sr.No	Date	Guest's Name	Topic	Place
1	21.09.2018	Mr. Navdeep Vishnuvanshi(MD, Tech Mahindra)	60 Years of NASA'	Seminar Hall

2	05.10.2018	Dr.A.S.Choudhary(Retired Professor, Management Dept., KUK)	How to become a Good Manager	Seminar Hall
3	28.9.2018	Orion Edutech (Skill Development )	Pradhan Mantri Kaushal Vikas Yojna(PMKVV)	B-Block
4	26.10.2018	Crosslink Consultanting(New Delhi)	Career Counselling & Language Skills	Seminar Hall
5	28.01.2019	Mr. Rajesh Gupta (Former Head & GM Infosys,Washington)	IoT & Analytics	Seminar Hall

Industry Visit organised till Date in session 2018-19

Sr.No	Date	Branch	Industry's Name	Place
1	02.11.2018	Civil	Brick Kiln	Kirmuch Kurukshetra
2	02.02.2019	Electrcal	Indo Asian Electric Pvt. Ltd.	Sonipat
3	02.02.2019	Mechanical	Rider Motors Pvt. Ltd	Sonipat

Extension Lectures organised till Date in session 2018-19

Sr.No	Date	Guest's Name	Topic	Place
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1	13.6.2018	Swami Hari Om Parivrajak(Vatsalya Vatika, Kurukshetra)	Education, Values & Life Mantra	Seminar Hall
2	21.6.2018	Dr. Dinesh Dadhchi(Professor, Deptt. of English, KUK)	English and Communication Skills	Seminar Hall
3	22.6.2019	Sh. Vimal S. Mehta (Film Maker & Career Guide, New Delhi)	Careers after B.Tech	Seminar Hall
4	26.7.2018	Sh. R. K. Deswal (Prof & Head Dept. of Philosophy, KUK)	Yoga, Meditation and Motivation	Seminar Hall
5	28.7.2018	Prof. (Dr.) Pankaj Chandna(Professor, NIT Kurukshetra)	Computer Aided Engineering and Careers	Seminar Hall
6	15.9.2018	Prof.Ganeshi Lal Ji(Governer of Odisha), Sh. Jagdish Mittal(President, Rashtriya Kavi Sangam), PadamShri Dr. Satish Kumar(Director NIT,Kurukshetra), Sh. Subash Sudha(MLA Thanesar)	"Digital Transformation: A New Industrial Revolution"	Multi Art Cultural Center(MACC), Kurukshetra
7	12.1.2019	Dr. Neeta Khanna ( Registrar KUK)	Release of Half Yearly Newsletter	Seminar Hall
8	29.01.2019	Sh. D.P.Vats(Member of Parliament, Rajya Sabha)	TERii Talk - V	Seminar Hall

Excursion Tours organised till Date in session 2018-19

Sr.No	Date	Branch	Visit Places	Place
1	23.09.2018	B.Tech	Rock Garden, Sukna Lake, Chattbir Zoo	Chandigarh
2	23.09.2018	B.Tech	Rock Garden, Sukna Lake, Chattbir Zoo	Chandigarh

Self Organized Program Date in session 2018-19

Sr.No	Date	Branch	Program Name	Place
1	30.12.2018	B.Tech	Open Air Musical Event	Divine Mall, Kurukshetra
2	29.01.2019	B.Tech	Rozgar Mela	B-Block
3	02.02.2019	B.Tech	International Youth Cultural Exchange Program	Seminar Hall

- **Soft Skill Development Facilities:** Special Classes to the students through professional and latest equipmental aids.
- **Teaching Learning Process**
- **Curricula and syllabus for each of the programmes as approved by the University/Board**
- **For each Post Graduate Courses give the following:**
- **Title of the Course:** Master of Business Administration
- **Curricula and Syllabi:**

## **MBA PROGRAMME**

The Master of Business Administration (MBA) is a Two Year Full Time Program. The course structure of the program is given hereunder w.e.f. 2015-16

### **FIRST YEAR**

#### **SEMESTER-I**

Course Code	Course Title	Division of Marks			Duration of Exams
		Ext.	Int.	Total	
CP-101	Principles and Practices of Management	70	30	100	3 Hrs.
CP-102	Business Statistics	70	30	100	3 Hrs.
CP-103	Managerial Economics	70	30	100	3 Hrs.
CP-104	Business Environment	70	30	100	3 Hrs.
CP-105	Business Communication	70	30	100	3 Hrs.
CP-106	Financial Accounting	70	30	100	3 Hrs.
CP-107	Fundamentals of Computer and E-Commerce	70	30*	100	3 Hrs.
CP-108	Seminar		50* *	50	

T= Theory, P= Practical

\* The Internal Assessment must be based on practical related to the subject.

\*\*Topic for seminar relating to the contemporary business issues/practices comprising Indian ethos, values, current socio-economic and business context would be assigned by the teacher in advance. Evaluation of such seminar would be based on written assignment submitted and presentation given by the candidate

## **DETAILED SYLLABUS FOLLOWS:**

**CP-101 : Management Process and Organizational Behaviour**

Max. Marks: 100

External : 70

Internal :30

Time: 3 Hours

**Note:-** The examiner will set eight questions in all. Question No. 1, comprising of seven short answer type questions, shall be compulsory. There would be one question in the form of case study. In all, the students would be required to attempt five questions. All questions will carry equal marks.

### **Objectives**

The objectives of the paper are to familiarize the students with basic management concepts and behavioural processes in the organization.

### **Course Contents**

Evolution of management thought : Systems and contingency approach for understanding organizations; Management processes, functions, skills and roles in an organization; Social Responsibility of Business; Understanding and Managing individual behaviour; Personality; Perceptions; Attitudes; Learning; Decision-making; Management by Objectives; Understanding and managing group processes- interpersonal and group dynamics; Applications of Emotional Intelligence in organizations. Leadership and influence process; Work Motivation. Understanding and Managing organizational system—Organizational design and structure, Work stress, Organizational Change and development; Conflict Management; Stress Management.

### **Suggested Reading:**

1. Koontz, H. and Wehrich, H.: Management, 10th ed., New York, McGraw Hill, 1995.
2. Luthans, F. : Organizational Behaviour, 7th ed., New York, McGraw Hill, 1995.
3. Robbins, S.P. : Management, 5th ed., New Jersey, Englewood Cliffs, Prentice Hall Inc., 1996.
4. Robbins, S.P. : Organizational Behaviour, 7th ed., New Delhi, Prentice Hall of India, 1996.
5. Staw, B.M. Psychological Dimensions of Organizational Behaviour, 4th ed., Englewood Cliffs, New Jersey, Prentice Hall Inc., 1995.
6. Stoner, J. et al. : Management, 6th ed., New Delhi, Prentice Hall of India, 1996.
7. Singh, Dalip: Emotional Intelligence at Work, Response Books, Sage Publications, Delhi, 2001.

#### M.B.A. Syllabus 11

The list of cases and specific references including recent articles will be announced in the class at the time of launching of the course.

## CP—102 : Business Statistics

Max. Marks: 100

External: 70

Internal : 30

Time :3 Hours

Note :—The examiner will s eight questions in all. Question No.1, comprising of seven short answer type questions, shall be compulsory. In all, the students would be required to attempt five questions. All Questions will carry equal marks.

### Objective

The objectives of this course is to make the students learn about the application of statistical tools and techniques for decision- making.

### Course Contents

Univariate Analysis : An overview of central tendency, dispersion, aid skewness.

probability Theory; Classical, relative and subjective probability,

- Addition and multiplication probability models; Conditional probability and Baye's Theorem.

Probability Distributions: Binomial, Poisson, and normal distributions; Their characteristics and applications. Sampling and sampling methods; Sampling and non-s Sampling erros's; Law of Large Number and Central Limit Theorem; Sampling distributions and their characteristics.

Statistical Estimation and Testing; Point and interval estimation of population mean, proportion, and variance; Statistical testing of hypothesis and errors; Large and small sampling tests—Z, t and F tests.

Non—Parametric Tests: Chi-square tests; Sign tests; Wilcoxon Signed— Rank tests; Kruskal—Wallis test.

Correlation and Regression Analysis : Two variables case.

Index Numbers : Meaning and types; Weighted aggregative indices-Laspeyre's and Paasch's indices; Laspeyre's and Paasch's indices compared, indices of weighted average of (price and quantity) relatives; Tests of adequacy Special problems—shifting the base; splicing, overlapping index series; Uses and problems of Index number; Time Series Analysis; Trend Analysis.

Statistical Quality Control : Causes of variations in quality characteristics, Quality control charts, - purpose and. logic; Constructing a control chart computing the control limits (X and R charts); Process under control and out of control, Warning limits; Control charts for attributes -fraction defectives and number of defects Acceptance sampling.

**Suggested Readings:**

1. Hooda, R.P. : Statistics for Business and Economics, Macmillan, New Delhi.
2. Heinz; Kohler : Statistics for Business & Economics,. Harper Collins; New York.
3. Heinz, LW : Quantitative Approach to Managerial Decisions, Prentice Hall, NJ.
4. Lawrence, B. Morse: Statistics for Business & Economics, Harper Collins, NY.
5. Levin, Richard I and David S Rubin : Statistics for Management Prentice Hail, Delhi.
6. Watsnam Terry J. and Keith Parramor: Quantitative Methods in Finance international, Thompson Business Press, London.

The list of cases and specific references including recent articles will be announced in the class at the time of launching of the course.

## **CP— 103 Managerial Economics**

Max. Marks 100

External: 70

Internal: 30

Time: 3 Hours

Note:- The examiner will set eight questions in all Question No.1, comprising of seven short answer two questions, shall be compulsory. In all, the students would be required to attempt five questions. All Questions will carry equal marks.

### **Objectives**

The objectives of this course is to acquaint the students with concepts and techniques used in Micro— Economic Theory and to enable them to apply this knowledge in business decision-making. Emphasis is given to changes in the nature of business firms in the context of globalization.

### **Course Contents**

Nature and scope of Managerial Economics. Importance of Managerial decision—making; Marginal analysis; Objective of a firm, Demand function, Elasticity of demand and its significance in Managerial decision-making; Consumer equilibrium-utility and indifference curve approach; Price, income and substitution effects; Fundamentals of demand estimation and forecasting; Short-run and long-run production functions; Cost curves and economics of scale; Price and output determination under perfect competition, monopoly, monopolistic, competition, and oligopoly; Pricing strategies and tactics; National Income— alternative concepts and measurement of National income; Inflation—types, measurement and control; Balance of Payments; Monetary and Fiscal Policies.

### **Suggested Readings:**

- 1) Peterson, Lewis, Managerial Economics, Prentice Hall of India, N. Delhi.
- 2) Salvatore, Managerial Economics in Global Economy; Thomson learning; Bombay.
- 3) EF. Brigham And J,L. Pappas, Managerial Economics, Dryden Press, Illinois.

4) Dwivedi, D.N. Managerial Economics, Vikas Publishing House, New Delhi.

5) Mehta, P.L. Managerial Economics, Sultan Chand, New Delhi.

The list of cases and specific references including recent articles will be announced in the class at the time of launching of the course.

## **CP-104 Business Environment**

Max. Marks: 100

External : 70

Internal : 30

Time: 3 hours

Note: — The examiner will set eight questions in all, Question No.1, comprising of seven short answer types questions, shall be compulsory. In all, the students would be required to attempt five questions. All Questions will carry equal marks.

### **Objectives**

The primary objectives of this course are to acquaint the students emerging global trends in business environment.

### **Course Contents**

Nature, components and determinants of business environment, dynamics of business environment, key indicators; Risk in business environment, Assessing business environment — country risk and political risk.

Current state of business environment in India Economic reforms — Liberalisation, privatisation, globalisation, industrial policy and industrialisation trends, public enterprise reforms and disinvestment programmes; competitive environment; financial environment

India's current balance of payment position, globalisation trends, Trade reforms & trends, FDI inflows & trends, India's share in world economy.

Trends in global trade & investment; Nature & operations of multilateral economic institutions- World Bank, WTO, IMF and their impact on Indian business environment. Factors of global competitiveness.

**Suggested Reading:**

1) Daniel, John D and Radebaugh, Lee H : International Business, 5th ed., New York, Addison Wesley, 1989.

2) Charles W. Hill, International Business, fourth edition, Tata McGraw Hill Publications Companies

3) AK. Sundaram J. Smart Block : The International Business Environment PHI

The list of cases and specific references including recent articles will be announced in the class at the time of launching of the course.

## CP—105 Business Communication

Max. Marks: 100

External: 70

Internal : 30

Time: 3 Hours

**Note :-** The examiner will set eight questions in all. Question No.1, comprising of seven short answer type questions shall be compulsory. In all, the students will be required to attempt five questions. All Questions will carry equal marks.

### Objectives

The course is aimed at equipping the students with the necessary techniques and skills of communication to inform others, inspire them and enlist their activity and willing cooperation in the performance of their jobs.

### Course Contents

Importance and nature of business communication, Effective communication skills; Process of communication Oral and Non-Verbal communication, Barriers and gateways in communication and Do's and Don't of business writing, Commercial letters; Writing business and academic reports; Presentation of reports; Public speaking, listening and Negotiations; conducting and attending interview and meetings.

### Suggested Readings:

1. Petett & Lesikar: Business Communication.
2. Petett & Lesikar: Essential of Business Communication.
3. Bowman, Joel and Branchaw, Bernadine P. : "Business Communication: From Process to Product", 1987, Dryden Press, Chicago.
4. Hatch, Richard : "Communication in Business", 1977, Science Research Associates, Chicago.
5. Murphy, Herta A and Peck, Charles E. : "Effective Business Communications", 2nd ed., 1976, Tata McGraw Hill, New Delhi.

6. Pearce, C Glenn etc. : "Business Communications Principles and Applications", 2nd ed., 1988, John Wiley, New York.
7. Treece, Maira, "Successful Business Communications", 3rd ed., 1987, Allyn and Bacon, Boston.

The list of cases and specific references including recent articles will be announced in the class at the time of launching of the course.

## CP—106: Accounting for Managers

Max. Marks: 100

External 70

Internal :30

Time : 3 Hours

**Note :-** The examiner will set eight questions in all. Question No.1, comprising of seven short answer type question, shall be compulsory. In all, the students would be required to attempt five questions. All Questions will carry equal marks.

### Objectives

The basic purpose of this course is to develop an insight of postulates, principles and techniques of accounting and application of financial and accounting information for planning decision—making and control.

### Course Contents

Financial Accounting - Meaning, scope and importance; Accounting concepts and conventions; Formation and importance of accounting Standards; Accounting process; Depreciation accounting and policy, Preparation of final accounts of non—corporate entities, Proforma of Balance Sheet of Joint—stock Companies, Cost-accounting : nature and scope of costing; Cost concepts and Classifications; Usefulness of Costing to Managers; Preparation of Cost-Sheet.

Management Accounting : Nature, scope and tools of Management Accounting; Management Accounting vs. Financial accounting; Financial analysis, Ratio analysis, Funds-Flow Statement, Cash-flow Statement Budgeting: Types of budgets and their preparation, Performance budgeting and Zero-base budgeting. Marginal costing : Break—even analysis. Decision involving alternative choices. Standard Costing: An Overview

### Suggested Readings:

1. Anthony, RN. and Reece, J.S. Accounting Principles, 6th ed, Homewood, illinois, Richard D. irwin, 1995.
2. Bhattachaiya : 5.K. and Dearden J. : Accounting for Management, Text and Cases, New Delhi, Vikas, 1996.
3. Gupta, RI. and Raxnaswamy : Advanced Accountancy, Volume I & II, Sultan Chanc & Sons.
4. Hingorani, N.L. and Rairanathan, A.R. : Management Accounting, Sthed., New Delhi, Sultan Chand, 1992.
5. Jawahar La! : Cost Accounting , Vikas Publishing House, New Delhi.
  
6. Maheshwari, S.N. : Advanced Accounting, Vikas Publishing House, New Delhi.

The list of cases and specific references including recent articles will be announced in the class at the time of launching of the course.

## CP-107: Fundamentals of Computer and E-Commerce

Max. Marks: 100

External: 70

Practical Based Internal Assessment: 30

Time 3 Hours

**Note:** The Examiner will set the question paper in two parts encompassing the entire syllabus. Part A will comprise 10 short answer type questions of 5 marks each. Part B will comprise of 5 questions of 10 marks each. A student is required to attempt any eight questions from the part A and any 3 questions from part B.

**Objectives:** The objective of the course is to acquaint the students with computers and concepts of E—Commerce.

### Course Contents

Computer fundamentals: An introduction; Elements of Computer system; Generations of Computers, Computer languages; Compiler, Interpreter and Assembler, Number system, Components of systems: - Input-Output devices, Types of Memory. An Introduction to Operating System, Hardware and software, Computer Network: Analog and Digital Signals, Band width, Network Topology, Network Applications. Introduction to MS-Office: - MS-Word, MS-Excel, MS-Power Point and MS-Access.

Introduction to E-Commerce, Benefits, Impact of E-Commerce, Classification of E-Commerce, Application of E-Commerce Technology, Business Models, Framework of E-Commerce., Business to Business, Business to Customer, Customer to Customer.

Electronic Payment Systems: Online Electronic Payment Systems, Prepaid and Post Paid Electronic Payment Systems. Inter-organizational commerce & intra—organizational commerce, EDI, value-added network, digital library.

### Suggested Readings:

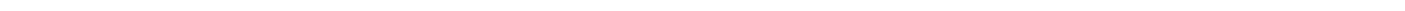
1. Kienam : Managing Your E-Commerce Business, Prentice Hall of India, N. Delhi.
2. Kosiur: Understanding E—Commerce, Prentice Hall of India, N. Delhi.
3. Kalakota, Whinston, Frontiers of Electronic Commerce, Addison Wesley.
4. Schneider P. Grey, Perry T. James : E—Commerce, Thomson Learning, Bombay.
5. Shurety : E-business with Net Commerce (with CD), Addison Wesley.
6. Napier: Creating a Winning E-business, Vikas Publishing House, New Delhi.
7. Didar Singh : E-Commerce for Manager, Vikas Publishing House, New Delhi.
8. Whitely David : Electronic Commerce, TMH, N Delhi.
9. Electronic Commerce -Framework, technologies and Applications - Bharat Bhasker TMH Publications.

The list of cases and specific references including recent articles will be announced in the class.

**CP-108: Seminar**

**Max. Marks 50**

# SYLLABUS AND SCHEME OF MBA 2<sup>ND</sup> SEMESTER







## **MBA-201: Optimization Models for Business Decisions**

Max. Marks: 100

External: 70

Internal: 30

Time 3 Hours

**Note:** The examiner will set nine questions in all. Question No. 1, comprising of 5 shortanswer type questions of 4 marks each, shall be compulsory and remaining 8 questions will be of 10 marks out of which a student is required to attempt any 5 questions.

**Objectives:** The objective of this course is to develop an understanding of basic management science techniques and their role in managerial decision—making.

### **Course Contents:**

Management Science - Basic concepts and its role in decision- making. Linear programming, meaning, scope & assumptions. Formulation of linear programming problem and its solution by graphical and Simplex methods.

THEORY OF GAMES: Introduction – Minimax (maximin) – Criterion and optimal strategy

– Solution of games with saddle points – Rectangular games without saddle points – 2 X 2 games – dominance principle – m X 2 & 2 X n games.

INVENTORY : Introduction – Single item – Deterministic models – Purchase inventory models with one price break and multiple price breaks – Stochastic models– Instantaneous production. Instantaneous demand and continuous demand and no set up cost.

Sensitivity analysis. Integer programming, goal programming, and non-linear Programming. Transportation and Assignment models including trans-shipment and routing problems

Application of Inventory management techniques in business; Role and importance of PERT/CPM in business decision making; Decision theory and decision trees. SIMULATION: simulation models – phases of simulation– applications of simulation – Inventory and Queuing problems – Advantages and Disadvantages. WAITING LINES: Introduction – Single Channel – Poisson arrivals – exponential service times, Multichannel –

Poisson arrivals – exponential service times with infinite population single channel Poisson arrivals.

### **Suggested Reading :**

7. Budnik, Frank S. Dennis Meleavey, Reichard : Principles of Operations Research, 2<sup>nd</sup> ed., Richard Irwin, Illinois – All India Traveller Bookseller, New Delhi, 1995.
8. Gould, F.J. etc. : Introduction to Management Science, Englewood Cliffs, New Jersey, Prentice Hall Inc., 1993.
9. Mathur, K and Solow, D. : Management Science, Englewood, New Jersey, Prentice Hall Inc. 1994.

10. Narang A.S. : Linear Programming Decision-Making. New Delhi, Sultan Chand, 1995.
11. Sharma, J.K. : Operations Research : Theory and Applications, New Delhi, Macmillian India Ltd., 1997.
12. Taha, H.A. : Operations Research – An Introduction, New York, Macmillan, 1989.
13. Theirouf, R.J. and Klekamp, RC. : Decision-Making Through Operations Research, New York, John Wiley, 1989.
14. N.D. Vohra : Quantitative Techniques in Management, Tata McGraw Hill, 2001.

The list of cases and specific references including recent articles will be announced in the class.

## **MBA-202: Business Research Methodology**

Max. Marks: 100

External: 70

Internal: 30

Time 3 Hours

**Note:** The examiner will set nine questions in all. Question No. 1, comprising of 5 short answer type questions of 4 marks each, shall be compulsory and remaining 8 questions will be of 10 marks out of which a student is required to attempt any 5 questions.

**Course Objective:** The objective of this course is to acquaint the students with concepts and basics of research methodology.

### **Course Contents:**

Introduction to Research Methodology: Research-Meaning, Nature. Scope Objectives and

Types; Research Process. Hypothesis:- Qualities of Good Hypothesis, Scientific Method of Research. Recent Trends in Usage of Research in Indian Corporate Sector.

Research Design- Meaning and Need of a Research Design, Exploratory, Descriptive, Experimental Research Design, Qualitative Research, Observation Studies, Surveys, Experiments & Test Markets.

Sources of Data- Nature and Types, Sampling Techniques-Nature and Types, Sampling Errors. Scaling & Measurement Techniques

Data Editing, Coding and Tabulation, Analysis & Interpretation of Data Business Research Reports-Format, Criterion for Judgment of good research report

Advance Techniques of Data Analysis: Factor analysis. Conjoint Analysis, Cluster Analysis & Multidimensional Scaling. Use of SPSS & Other Software's in Research. Use of Statistical Tools such as Correlation, Regression.

**Suggested Readings:**

- 6) Malhotra, Naresh K.: Marketing Research an Applied Orientation, 5<sup>th</sup> edition, Pearson.
- 7) Cooper, Business Research Methods, 11 th edn McGraw Hill Education.
- 8) Boyd & Westfall: Marketing Research, Prentice Hall.
- 9) Kothari, C. R.: Research Methodology, New Age International Publishers.

- 10) Shekharan & Uma: Business Research Methods-A Skill- Building Approach, 7<sup>th</sup> ed., New York, John Wiley, 2002.
- 11) Creswell, John W.: Research Design-Qualitative & Quantitative Methods, New York, John Wiley, 2002
- 12) Sandhi and Chawla: Research Methodology-Concepts and cases, 1st Edition, Vikas
- 13) Nargundkar, Marketing Research - Text and Cases 3<sup>rd</sup> edn, McGraw Hill Education

The list of cases and specific references including recent articles will be announced in the class.

# MBA -203: Production and Operations Management

Max. Marks: 100

External: 70

Internal: 30

Time 3 Hours

**Note:** The examiner will set nine questions in all. Question No. 1, comprising of 5 short answer type questions of 4 marks each, shall be compulsory and remaining 8 questions will be of 10 marks out of which a student is required to attempt any 5 questions.

**Objective:** The Course is designed to acquaint the students with decision making in :Planning, scheduling and control of Production and Operation functions in both manufacturing and services; Productivity improvement in operation through layout engineering and quality management etc.: Effective and effective and efficient flow, replenishment and control of materials with reference to both manufacturing and services organization.

## Course Contents:

Operations as a source of competitive advantage; Trade-offs and combinations, Process Analysis, Difference between Manufacturing and Service Operations Product Process Matrix,

capacity planning- Process Selection and Facility layout: Designing product and process layouts and line balancing, Forecasting and its types, Inventory Management: Deterministic demand model–EOQ-Continuous and Periodic review Inventory models; Supply chain management; Lean vs Agile supply chains; Aggregate Production Planning; Master Production Schedule and MRP, Project Management, Quality management and Sustainable Operations Management

**Suggested Readings:**

- 4) Admn, E. E. & Ebert, R.J. : Production and Operations Management, 6<sup>th</sup> ed., New Delhi, Prentice Hall of India 1995.
- 5) Chary, S.N. : Production and Operations Management, New Delhi, Tata McGraw Hill, 2ndEdition.

8. Ashwathapa: Production and Operations Management, Himalaya Publishing House.
9. Dobler, Conald W and Lee, Lamar :Pruchasing and Materials Management, New York, McGraw Hill, 1984.
10. Chunawalla &Patel : Production and Operations Management, Himalaya Publishing House, Nair: Production and Operations Management, TMH
7. Chary,Production and Operations Management 5 th edn, McGraw Hill Education
8. Stevenson, Operations Management, 12 edn McGraw Hill Education

The list of cases and specific references including recent articles will be announced in the class.

## **MBA-204: Marketing Management**

Max. Marks: 100

External: 70

Internal: 30

Time 3 Hours

**Note:** The examiner will set nine questions in all. Question No. 1, comprising of 5 short answer type questions of 4 marks each, shall be compulsory and remaining 8 questions will be of 10 marks out of which a student is required to attempt any 5 questions.

**Objectives:** The purpose of this course is to develop an understanding of the underlying concepts, strategies and issues involved in the marketing of products and services.

### **Course Contents:**

Marketing: Meaning, Nature, Scope, Evolution and Importance. Modern concept of marketing. Holistic Marketing, Ethics in marketing. Role of Information Technology in marketing. The dynamic marketing Environment. Marketing Mix and STP (Segmentation, Targeting and Positioning) Marketing Information System: Concept and Components of a marketing information system. Marketing Research: meaning, scope and techniques. Consumer Behaviour: meaning and importance, buying motives, buying process, factors influencing consumer behaviour. Product decisions: concept,

classification, product -line decisions. New product development process, product life cycle, Packaging and Branding decisions. Pricing Concepts: objectives, policies and procedures, factors affecting pricing, pricing strategy and product life cycle, price changes and organizational strategies, product line pricing. Integrated Marketing Communication: Promotion-Mix; Advertising, sales promotion, public relations, personal selling and direct marketing. Channels of distributions: Concept, types and factors affecting channel selection. Recent developments in marketing.

**Suggested Readings:**

- 1 Michael J. Etzel : Marketing Concepts and Cases, Tata  
Bruce J. Walker McGraw-Hill Publishing Company Limited.  
William J. Stanton  
Ajay Pandit
- 2 Michael R.Czinkota :Marketing Management, Thomson, South

- Masaaki Kotabe Western.
- 3 Philip Kotler : Marketing Management, Pearson Prentice-Hall.
- Kevin lane Keller
- 4 DhruGreqal : Marketing, Tata McGraw Hill Publishing  
Michael Levy Company Limited.
5. V.S. Ramaswamy : Marketing Management, Macmillan Publisher  
S. NamaKumari India Ltd.
6. Rajan Sexena : Marketing Management, Tata McGraw Hill  
Publishing Company Limited.
7. Nargundkar, Marketing Research - Text and Cases 3 rd edn,  
McGraw Hill Education

The list of cases and specific references including recent articles will be announced in the class

## **MBA-205: Corporate Finance**

Max. Marks: 100

External: 70

Internal: 30

Time 3 Hours

**Note:** The examiner will set nine questions in all. Question No. 1, comprising of 5 short answer type questions of 4 marks each, shall be compulsory and remaining 8 questions will be of 10 marks out of which a student is required to attempt any 5 questions.

**Objectives:** The purpose of this course is to acquaint the students with the broad framework of financial decision—making in a business unit.

### **Course Contents**

Introduction to financial management Objectives of financial management; Time value of money, sources of finance, Investment decisions: Importance, Difficulties determining

cash flows, methods of capital budgeting Risk analysis : Cost of capital; Concept and importance, Computations of cost of various sources of finance; Weighted Average Cost of Capital; Capital Structure decisions; Theories of capital structure, Factors determining capital structure. Optimum capital structure; Management of working capital - Cash, Receivables and Inventory Management, Internal Financing and Dividend Policy. Financial Modelling, essentials and financial modeling framework.

**Suggested Readings:**

- 1) Hamton, John; Financial Decision-Making, Englewood Cliffs, New Jersey, Prentice Hall Inc., 1997.
- 2) Khan, M.Y. and Jam, P.K. : Financial Management, McGraw Hill, 2001.

- 1) Pandey, IM. : Financial Management, Vikas Publication House, 2000.
- 2) Van Home, James C. : Financial Management and Policy,10th ed., New Delhi, Prentice Hall of India, 1997.
- 3) Winger, Bemard and Mohan, Nancy: Principles of Financial Management, New York, Macmillan Publishing
- 4) Company, 1991.
- 5) Kishore, Ravi M. : Financial Management, Taxmann Publishers, New Delhi.
- 6) Chandra, Financial Management 9th edn McGraw Hill Education.
- 7) Ross, Corporate Finance 11 th edn McGraw Hill Education

The list of cases and specific references including recent articles will be announced in the class.

Max. Marks: 100

External: 70

Internal: 30

Time 3 Hours

**Note:**The examiner will set nine questions in all. Question No. 1, comprising of 5 short answer type questions of 4 marks each, shall be compulsory and remaining 8 questions will be of 10 marks out of which a student is required to attempt any 5 questions.

**Objective:** The content of the course aims at increasing acquaintance of the students with basic as well as advanced HR concepts. In addition to this the course attempts to raise their level of understanding with respect to people dynamics in modern organisations and their subsequent significant impact on Organisational effectiveness and efficiency.

**Course Contents:**

Human Resource Management- Concept, Scope and Functions of HRM; Evolution of

HRM: HR Philosophy, HR Policies.; Theoretical Perspectives; HR Models; HR

Challenges in a changing business environment. Human Resource Planning and

Forecasting; Job Analysis; Recruitment, Selection and Retention of human resources;

Placement, Induction and Socialisation; Learning, Training and  
Development,

Performance Appraisal, Performance Management and Potential Appraisal; Career

Management ; Job Evaluation; Compensation Management, Rewards and Recognition

Programs; Employee Separations Practices; Industrial Relations and Trade Unions;

and Health ;HR Ethics;

Recent advance concepts and Contemporary Trends in HRM: Employee Engagement; Social Media and HR; HR Analytics; Competency Based HRM; Six Sigma in HR etc.

***Suggesting Readings***

1. Dessler&Varakkey, Human Resource Management, Pearson Education
2. K.Aswathapa , Human Resource Management: Text and Cases, 8th Ed., Tata McGraw Hill, New Delhi.
3. SeemaSanghi , Human Resource Management, Macmillan India Publication. 2012
4. Aggarwala, Tanuja ,Strategic HRM, Oxford University Press.2010
5. Armstrong, Michael Handbook of HRM Practice, Kogan Page,
6. P. Jyothi , Human Resource Management, Oxford University Press.2012
7. Lepak&Gowan, Human Resource Management, Pearson Education. 2011
8. V.S.P.Rao , Human Resource Management, Himalaya Publication House.
9. Ivancevich,Human Resource Management 11 th edn McGraw Hill Education

## **MBA-207: Legal Environment**

Max. Marks: 100

External: 70

Internal: 30

Time 3 Hours

**Note:** The examiner will set nine questions in all. Question No. 1, comprising of 5 short answer type questions of 4 marks each, shall be compulsory and remaining 8 questions will be of 10 marks out of which a student is required to attempt any 5 questions.

### **Course Contents:**

Legal Aspect of Business: Introduction to Business Laws- Business Management and Jurisprudence; structure of the Indian Legal Systems: sources of Law; Manager and Legal System; Fundamentals of contract laws-Formation of Contracts; Principles of Contract Laws-Legality of Object Consideration; Performance of contract-Discharge of contract-breach of contract-Quasi contracts-Contract Management-Special Contracts-Laws of Agency; Principal-Agent Problem-Bailment, Pledge, Guarantee and Indemnity-Sales of Goods- Principles of Sales of Goods- Transfer of Ownership& Property-Performance of

contract-Consumer Protection Laws-Law relating to Business Organizations-Partnership  
Trusts- Company form of organization- Protecting the property of Business-Copyright,  
Trademark, secret, Geographical Indications-Alternate Dispute resolutions

**Suggested Readings:**

1. Pathak-Legal Aspects of Business 6th edn McGraw Hill Education
2. Tulsian, Business Law 3rd edn McGraw Hill Education

**MBA-208: Comprehensive Viva-Voce**

Max. Marks: 50

### SEMESTER—III

Course Code	Course Title	Division of Marks			Duration of Exams
		Ext.	Int.	Total	
CP-301	Business Policy and Strategic Management	70	30	100	3Hrs.
CP-302	Business Legislation	70	30	100	3Hrs.
CP-303	Summer Training Report	50	50*	100	

(Plus 6 Optional Papers by selection 3 Papers each from two areas)

\*Internal evaluation will be based on seminar presentation.

### SEMESTER-IV

Course Code	Course Title	Division of Marks			Duration of Exams
		Ext.	Int.	Total	
CP-401	Entrepreneurship Development	70	30	100	3Hrs.
CP-402	Research Project	100		100	
CP-403	Comprehensive Viva Voce (including viva-voce on research project)	50	-	50	

(Plus 6 Optional Papers by selecting 3 papers each from two areas)

List of Optional Papers of various specializations

## **FINANCE**

### **3rd Semester**

FM—301	Financial Decisions Analysis
FM—302	Foreign Exchange Management
FM—303	International Accounting
FM—304	Corporate Taxation
FM—305	Working Capital Management
FM—306	Management of Financial Institutions
FM—307	Security Analysis and Investment Management

**4th Semester**

FM-401	Principles of Insurance and Banking
FM-402	International Financial Management
FM-403	Management Control System
FM-404	Financial Derivatives
FM-405	Management of Financial Services
FM-406	Project Management
FM-407	Portfolio Management

**MARKETING****3rd Semester**

MM-301	Advertising Management
MM-302	Sales Management
MM-303	Product and Brand Management
MM-304	Consumer Behaviour
MM-305	Distribution and Logistics Management
MM-306	Retailing
MM-307	Marketing Research

**4<sup>th</sup> Semester**

MM-401	International Marketing
MM-402	Industrial Marketing
MM-403	Service Marketing
MM-404	Direct Marketing
MM-405	Rural and Agricultural Marketing
MM-406	Marketing Communication Strategy

**HRM****3rd Semester**

HRM-301	Management of industrial Relations
HRM-302	Management of Comparative Industrial Relations
HRM-303	Manpower Development for Technological

Change

HRM-304 Compensation Management

HRM-305 Managing Interpersonal and Group Processes

HRM-306 Human Resource Planning and Development

**4th Semester**

HRM-401 Counselling Skills for Managers

HRM-402 Legal Framework Governing Human Relations

HRM-403 Management Training and Development

HRM-404 Organisational Change and Intervention  
Strategies

HRM-405 Human Resource Management : Strategies and  
Systems

HRM-406 Global Human Resource Management

## **CP-301: Business Policy and Strategic Management**

Max. Marks: 100

External: 70

Internal: 30

Time: 3Hours

**Note** :-The examiner will set eight questions in all. Question No.1, comprising of seven short answer type questions, shall be compulsory. There would be one question in the form of case study. In all, the students would be required to attempt five questions. All Questions will carry equal marks.

### **Objectives**

The course aims at imparting knowledge of formulation. implementation and evaluation of Business Strategies.

### **Course Contents**

An Introduction to business policy — Nature, Objective and importance of business policy; An overview of strategic management; Strategic decision making; Process of strategic decision making.

Types of planning systems - corporate planning, strategic planning and long range planning; Strategy Formulation, Company's mission, purpose and objectives; Corporate strategy - concept, significance and objectives; types of strategies; Environmental and organizational appraisal (Internal & external) techniques of business environment analysis. Strategic alternatives and choice; Business ethics and corporate strategy Concept of value chain and competitive advantage.

Strategy implementation - Designing organisational structure and activating strategies; Matching structure and activating strategy, Structural, Behavioural and Functional implementation. concept of synergy. Strategy Evaluation - Strategic evaluation and Control, Strategic and Operational Control; techniques of evaluation and control, Role of organisational system in evaluation.

### **Suggested Readings:**

(b) Jauch & Glueck : Business Policy and Strategic Management.

(c) Thompson LA. and Stickland A.J.: Strategic Management - Concept and cases.

(d) Michael Potter: Competitive Advantage of Nations.

(e) Azhar Kazmi : Business Policy and Strategic Management.

(f) Kenneth, A. Andrews : Concepts of corporate Strategy.

(g) Melvin J. Stanford: Management Policy

(h) John A. Pearce Hand R.B. Robinson Strategic Management Strategy Formulation and Implementation.

The list of cases and specific references including recent articles will be announced in the class at the time of launching of the course.

## **CP-302: Business Legislation**

Max. Marks : 100

External: 70

Internal:30

Time:3Hours

**Note:** - The examiner will set eight questions in all. Question No.1, comprising of seven short answer type questions shall be compulsory. In all, the students would be required to attempt five questions. All Questions will carry equal marks.

### **Objectives**

The course is designed to assist the students in understanding basic laws affecting the operations of a business enterprise.

### **Course Contents**

The Indian Contract Act, 1872 : Essentials of a Valid Contract, Void Agreements Performance of

Contracts, Breach of Contract and its Remedies, Quasi-Contracts, The Sale of Goods Act, 1930: Formation of a Contract, Rights of an Unpaid Seller; The Negotiable Instrument Act, 1881 : Nature and Types, Negotiation and Assignment, Holder-in-Due Course, Dishonour and Discharge of a Negotiable Instrument, Arbitration; The Companies Act, 1956 : Nature and types of Companies, Formation, Memorandum and Articles of Association, prospectus Allotment of Shares, Share and Share Capital, Membership, Borrowing Powers, Management and Meetings, Accounts and Audit, Prevention of Oppression and Mismanagement, Winding up.; An Overview of Consumer Protection Act and Cyber Laws.

### **Suggested Readings:**

1. Avtar Singh: Company Law, 11th ed., Lucknow, Eastern, 1996.
2. Khergamwala, JS : The Negotiable Instrument Acts, Bombay, N.M. Tripathi, 1980.

3. Ramaiya, A. : Guide to the Companies Act, Nagpur, Wadhwa, 1992.
4. Shah, S M.: Lectures on Company Law, Bombay, N.M. Tripathi, 1990.

5. Tuteja, S K : Business Law for Managers, New Delhi, Sultan Chand, 1998

The list of cases and specific references including recent articles will be announced in the class at the time of launching of the course.

### **CP-303 : Summer Training Project**

**Max. Marks: 50**

At the end of second semester, all students will have to undergo Summer training of 6-8 weeks with industrial, business or service organization.

## CP – 401 : ENTREPRENEURSHIP DEVELOPMENT

Max Marks. 100

External : 70

Internal : 30

Time: 3Hours

**Note:** - The examiner will set eight questions in all. Question No.1, Comprising of seven short answer type questions, shall be compulsory. In all, the students would be required to attempt five questions. All Questions will carry equal marks.

### **Objectives**

The objective of this course is to expose the students to the growth of entrepreneurship in developing countries with special reference to India.

### **Course Contents**

Significance of Entrepreneur in Economic Development; Economic, Social and psychological need for entrepreneurship; Characteristics, qualities and pre – requisites of entrepreneur; The function of the entrepreneur in economic development of a Country; Methods and procedures to start and expand one's own business; Life cycle of new business and relationship with large enterprises; Achievement motivation; Environmental Factors affecting success of a new business; Reasons for the failure and visible problems for business.

Feasibility Study – Preparation of Feasibility Reports : Selection of factory location, Demand Analysis, Market potential measurement, Capital saving and project costing, Working capital requirements, profit and tax planning; Economic, Technical, Financial and Managerial Feasibility of Project.

Govt. support to new enterprise; Incentives; source of Finance; Role of Govt. and Promotional agencies in entrepreneurship development.

Entrepreneurship Development Programmes; Role of various institutions in developing entrepreneurship in India (A brief description only).

### **Suggested Reading:**

1. Cliffton, Davis S and Fyfie, David E.: "Project Feasibility Analysis" . 1977 John Wiley, New York.
2. Desai, A.N. : "Entrepreneur & Environment" . 1990. Ashish, New Delhi.
3. Drucker, Peter : "Innovation and Entrepreneurship", 1985 Heinemann, London.
4. Jain Rajiv. : "Planning a Small Scale Industry : A Guide to Entrepreneurs". 1984. S.S. Books, Delhi.
5. Kumar, S.A. : "Entrepreneurship in Small Industry". 1990, Discovery, New Delhi.
6. McClelland, DC and Winter, WG. : "Motivating Economic Achievement". 1969. Free Press, New York.
7. Pareek, Udai and Venkateswara Rao, T. : "Developing Entrepreneurship – A Handbook on Learning Systems", 1978, Learning Systems, Delhi.

The list of cases and specific references including recent articles will be announced in the class at the time of launching of the course.

#### **CP – 402 Research Project**

**Max. Marks: 100**

The final project will be evaluated at the end of the fourth semester by the external examiner. This would be equivalent to the marks of the one paper.

#### **CP – 403 Comprehensive Viva – Voce**

**Max. Marks: 50**

## LIST OF OPTIONAL PAPERS OF VARIOUS SPECILISATIONS

### FINANCE

#### FM—301 Financial Decisions Analysis

Max. Marks: 100

External : 70

Internal :30

Time:3 Hours

**Note :-**The examiner will set eight questions in all. Question No.1, comprising of seven short answer type questions, shall be compulsory. There would be one question in form of case study. In all, the students would be required to attempt five questions. All Questions will carry equal marks.

#### Objectives

The basic objective of this course is to impart an intensive, knowledge about the use of quantitative techniques in specified financial decision—making areas.

#### Course Contents

Application of Linear Programming; Goal Programming; Regression analysis and Simulation Technique in Financial Decisions Making Areas; Corporate Debt Capacity Management Decisions; Business Failure and Reorganisation— Application of Multiple Discriminant analysis; Decision Tree Analysis; Capital Expenditure Decision Under Conditions of Risk and Uncertainly; Cost-Volume-Profit Analysis under conditions of Uncertainly; Sequencing of Decisions; Replacement Decisions; Mergers and Acquisitions; Takeover code; Dividend Valuation Model; Determination of the Exchange ratio; Legal and Procedural aspects of Merger Decision; Estimation and Projection of Working Capital Decisions,

#### Suggested Readings:

1Bierman, Harold. Lease Vs. : Buy Decision. Englewood Cliffs, New Jersey, Prentice Hall Ins., 1982.

1. Fogler, H and Ganpathy : Financial Econometrics Englewood Cliffs, New Jersey, Prentice Hall Inc., 1982.

2. Levy, H. and Sarnat H. Capital Investment and Financial Decision, Englewood Cliffs New Jersey, Prentice Hall Inc., 1982.

3. Van Home, James C. : Financial Management and Policy, Englewood Cliffs, New Jersey. Prentice Hall of India, 1990

4. Sapirio, Edverd, Financial Decision Analysis.

The List of cases and specific references including recent articles will be announced in the class at the time of announced of the course.

## FM – 302 : Foreign Exchange Management

Max. Marks: 100

External: 70

Internal : 30

Time : 3 Hours

**Note** :— The examiner will set eight questions in all. Question No.1, comprising of seven short answer type questions, shall be compulsory for all, the students would be required to attempt five questions. All Questions will carry equal marks.

### Objectives

To acquaint the students with the mechanism of the foreign exchange markets, measurement of the foreign exchange exposure, and hedging against exposure risk.

### Course Contents

Types of Foreign Exchange Markets and Transactions, Quoting Foreign Exchange Rates, Spread, Official and Free Market Rates, Cross Currency Rates, Forward Rates, Quoting Forward Rates; Organisation of the foreign Exchange Markets; Currency Futures; Currency Options; Currency Swaps; Corporate Exposure management: Foreign Exchange Risk, Alternative Strategies for Exposure Management, Exposure Management Techniques, Organisation of the Exposure Management Function; Parameters and constraints on Exposure Management: Forecasting Exchange Rates : Economic Fundamentals, Financial and Socio-Political Factors, Technical Analysis; Tax Treatment of Foreign Exchange Gains and Losses.

### Suggested Readings:

I Sharan: International Financial Management, Prentice Hall of India, N. Delhi.

1. Shapiro: Multinational Financial Management, Prentice Hall of India, N. Delhi.

2. Paul Einzig : A Textbook on Foreign Exchange.

3. Maurice D. Levi: International Finance, McGraw Hall, N.Y.

4. A. Buckley: Multinational Financial, Prentice Hall of India, New Delhi.

5. Paul Roth : Mastering Foreign Exchange and Money Markets, Pitman, London.

The list of cases and specific reference including recent articles will be announced in the class at the time of launching of the course.

## FM—303: International Accounting

Max. Marks: 100

External; 70

Internal : 30

Time: 3 Hours

**Note:-** The examiner will set eight questions in all. Question No.1, comprising of seven short answer type questions, shall be compulsory. In all, the students would be required to attempt five questions. All questions will carry equal marks.

### Objectives

The objective of this course is to acquaint the students with the accounting needs of international financial markets and to analyze the accounting measurement and reporting issues unique to multinational business transactions.

### Course Contents

International dimensions of accounting; conceptual development and comparative development patterns; foreign currency translation; international audit environment international accounting standards; concept and mechanism of setting international standards disclosure requirements of international accounting standards. Managing international information systems; international perspective on inflation accounting; international dimensions of financial reporting; harmonization of accounting practices. Analyzing foreign financial statements; accounting for environmental protection measures.

Transfer pricing and international accounting : performance evaluation; foreign exchange risk management

### Suggested Readings:

1. Arpon, Jeffrey S and Radebaugh, Lee H. : International Accounting and Multinational Enterprises, New York, John Wiley, 1985.
2. Cboi, Frederick D S and Mueller Gerhard G. : International Accounting. Englewood Cliffs, New Jersey, Prentice Hall Inc., 1994.
3. Evans, Thomas G. : International Accounting & Reporting London. MacMillan, 1985.

4. Gray, S i. : International Accounting and Transnational Decisions, London, Butterworth, 1 93.
5. Holzer, H Peter : International Accounting, New York, Harper& Row, 1984.
6. Prodhan, Bimal. : Multinational Accounting, London, Croom-Helm, 1986.
7. Rathore, Shirin. : International Accounting, Englewood Cliffs, New Jersey, Prentice Hail Inc., 1996.

The list of cases and specific references including recent articles will be announced in the class at the time of launching of the course.

## FM—304: Corporate Taxation

Max Marks. 100

External : 70

Internal : 30

Time: 3Hours

**Note:** - The examiner will set eight questions in all. Question No.1, Comprising of seven short answer type questions, shall be compulsory. In all, the students would be required to attempt five questions. All Questions will carry equal marks.

### Objectives

The objective of the course is to acquaint the participant with the implications of tax structure and corporate tax Planning in operational as well as strategic terms.

### Course Contents

Basic Concepts of Income Tax; Residential status of a Company Computation of Income under Different Heads of Income, Set off and Carry forward of Losses, Deductions and Exemptions; Additional Tax on Undistributed Profits; Companies Profit Surtax Act; Computation of Tax Liability; Meaning and Scope of Tax Planning and Location of Undertaking, Tax Planning regarding Dividends Policy, Inter Corporate Dividends and Transfers; Tax Considerations in Respect of Specific Managerial Decision like Make or Buy, Own or Lease, Clone or Continue, Sale in Domestic Markets or Exports; Replacements and Capital Budgeting Decisions, etc; Tax Planning in respect of Managerial Remuneration.

### Suggested Readings:

1. Ahuja, G.K. & Gupta Ravi : Systematic Approach to Income Tax, Allahabad, Bharat Law House, 1999.
2. Iyengar, A C.: Sampat Law of Income Tax, Allahabad, Bharat House, 1981.
3. Kanga, 3 B and Palkhivala, N A. : Income Tax Bombay, Vol. I-3, N.M. Tripathi.
4. Ranina, H P. : Corporate Taxation : A Handbook 2nd New Delhi, Oriental Law House, 1985
5. Singhanian, V K. : Direct Taxes: Law and Practice, Delhi, Taxman, 1991.

6. Srinivas, E. A. : Handbook of Corporate Tax Planning, New Delhi, Tata McGraw Hill, 1986.

The list of cases and specific references including recent articles will be announced in the class at the time of launching of the course

## **FM – 305: Working Capital Management.**

Max Marks: 100

External:70

Internal: 30

Time :3 Hours

**Note** :—The examiner will set eight questions in all. Question No.1, comprising of seven short answer type questions, shall be compulsory. In all, the students would be required to attempt five questions. All questions will carry equal marks.

### **Objectives**

The objective of the course is to acquaint the students with the importance of the working capital and the techniques used for effective working capital management.

### **Course Contents**

Concept of Working Capital Management, Importance of Working Capital, Kinds of Working Capital, Factors Determining Working Capital, Estimating Working Capital Requirements; Management of Cash -Motives for Holding Cash and marketable securities; Cash System, Managing the Cash Flows. Types of Collection Systems. Cash Concentration Strategies, Disbursement tools, Investment in Marketable Securities; Forecasting Cash Flows; Managing Corporate Liquidity and Financial Flexibility; Measures of Liquidity, Determining the Optimum Level of Cash Balances – Baumol Model, Beranek Model, Miller— Or Model, Stone Model; Receivable Management- Determining the appropriate Receivable Policy, Marginal Analysis, Credit Analysis and Decision, Heuristic Approach, Discriminant Analysis, Sequential Decision of analysis, Inventory Management-kinds of Inventories, Benefits and Costs of Holding Inventories, Inventory Management and Valuation. Inventory Control Models, Short-term financing; Programming Working Capital Management; Integrating Working Capital and Capital Investment Processes.

### **Suggested Readings:**

1. Bhalla, I V K, : Working Capital Management, Text and Cases, 4th ed. Delhi, Anmol, 2001.

2. Hampton J. J. and C. L : Wagner Working Capital Management, John Wiley & Sons, 1989.
3. Mannes, T.S. and J.T. Zietlow : Short-term Financial Management, West Pub. Co., 1993.
4. Scherr, F.C. Modern Working Capital Management, Prentice Hall, 1989.
5. Smith, Keith V. and G. W. Gallinger : Readings on Short-term Financial Management 3rd ed., West Pub. Co., 1988.

The List of cases and specific references including recent articles will be announced in the class at the time of launching of the course.

## FM-306: Management of Financial Institutions

Max, Marks 100

External: 70

Internal : 30

Time:3 Hours

**Note:-** The examiner will set eight questions in all. Question No.1, comprising of seven short answer typequestion, shall be compulsory. In all, the students would be required to attempt five questions. All Questions will Carry equal marks.

### Objectives

The objective of this course is to discuss the specific financial management problems of financial institutions including a detailed study of the working of the leading financial institutions in India.

### Course Contents:-

The Nature and Role of Financial System; Evaluating Risks and Returns of Assets and Liabilities of Financial Institutions; Interest Rite Analysis; Interest Rates in the Financial System; Yield Curve; Risk and Inflation; Provisions of RBI's Operations; Credit and Monetary Planning; Insurance Companies; Thrift institutions Capital Adequacy and Capital Planning; Strategy of Growth; Problems of Time and Cost Over Runs; Financial

Planning of Financial Institutions; Financial Goals and Performa Statements Development Banks; Role of Development Banks in Industrial Financing in India; Objectives and Functions of Different Financial Institutions in India Like IFCI, ICICI, IDBI, UTI, LIC, Mutual Funds, international Aspects of Financial Institutions.

### Suggested Readings:

1. Rose, Peter S. And Fraser, Donald R. : Financial Institutions. Ontario, Irwin Dorsey. 1985
2. Vij Madhu. : Management of Financial Institutions in India, New Delhi. Anmol, 1991.

3. Yeager, Fred C. and Seitz, Nail E. : Financial Institution Management: Test and Cases.  
3rd ed., Englewood Cliffs, New Jersey, Prentice Hall Inc., 1989.
4. Bhole L.M. : Management of Financial Institutions. Tata McGraw Hill, 2001.
5. Khan MY. Indian Financial System; Tata McGraw Hill,2000.

The list of cases and specific references including recent articles will be announced in the class at the time of launching of the course.

## **FM-307: Security Analysis and Investment Management**

Max. Marks: 100

External: 70

Internal : 30

Time :3 Hours

**Note :-** The examiner will set eight questions in all. Question No.1, comprising of seven short answer type questions, shall be compulsory. In all the students would be required to attempt five questions. All Questions will carry equal marks.

### **Objectives**

The objective of this course is to impart knowledge to students regarding the theory and practice of Security Analysis and Portfolio Management.

### **Course Contents**

Investment-return and risk; Operations of Indian Stock Market; New Issue Market; Listing of Securities, OTCEI. Cost of investing in securities; mechanics of investing; markets and brokers; investment companies; market indices and return.

Objectives of security analysis; investment alternatives, valuation theories of fixed and variable income securities, government securities; non – security forms of investment; real estate investment; investment instruments of the money market; Fundamental and technical approach, efficient market theory, recent developments in the Indian stock market.

### **Suggested Readings:**

1. Pandian : Security Analysis and Portfolio Management, Vikas Publishing House, New Delhi.
2. Raman Investment; Principles and Tehcniques, Vikas Publishing House, New Delhi.
3. Fischer, Donald E. And Jordan, Ronald J. : Security Analysis and Portfolio Management. Prentice Hall of
4. India, New Delhi.
5. Fuller, Russell J. and Farrell, James L: Modern Investment and Security Analysis. New York, McGraw Hill.

6. Alexander, Gordon J. and Bailey, Jeffery V. : Investment Analysis and Portfolio Management, Dryden Press, Thomson Learning, Bmbay.
7. Machiraju, H.R. : Indian Financial System. Vikas Publishing House, New Delhi.

The list of cases and specific references including recent articles will be announced in the class at the time of launching of the course.

## **FM-401 Principles of Insurance and Banking**

Max Marks. 100

External : 70

Internal : 30

Time: 3Hours

**Note:** - The examiner will set eight questions in all. Question No.1, Comprising of seven short answer type questions, shall be compulsory. In all, the students would be required to attempt five questions. All Questions will carry equal marks.

### **Objectives**

The basic objective of this course is to apprise the students with the banking law and practice and develop and understanding of various laws affecting banks.

### **Course Contents**

Introduction to insurance; Various types of insurance; principles of insurance; important insurance policies in life and non-life insurance; IRDA and its role in insurance sector in India; privatization of insurance industry in India; insurance business operations; recent trends in insurance and universal banking in India.

Insurance Environment : Internal, External, Legal and Commercial. Comparative Environment of Insurance business, Insurance procedure – Settlement of Claims under life and non life insurance.

Evolution of Banking Law; Main provisions of Banking Regulation Act, 1949; and RBI Act, 1934 and Negotiable Instruments Act, 1881.

Securities for Bank Advances : Forms of securities and precautions taken by Banks in accepting these securities.

Guarantees : Contract of Guarantee and contract of indemnity, Guarantee as Banker's Security.  
Writing Reports in Bank visits; Prevailing practices in Banking – Case Studies. Banker Customer Relationship; Contemporary Issues in Banking : NPA and Capital Adequacy in Indian Banks.

**Suggested Reading:**

1. Gulshan, S.S. : Law and Practices of Banking in India.
2. Davr, S.R. : Law and Practice of Banking.
3. Tandon, H.L. : Banking Law & Practice in India.
4. Varshney, P.N.: Banking Law and Practice.
5. Cox, David: Elements of Banking; John Murray, London.
6. Bodla, B.S. Garg, Mahesh and Karam Pal : Insurance Fundamentals, Procedures and environment.
7. Mehta, R.R.S. : Fundamental of Banking; Himalaya Publishing House Co., New Delhi.
8. Nigam, B.M.L. : Banking Law and Practive, Konark Publishers, Delhi.

The list of cases and specific references including recent articles will be announced in the class at the time of launching of the course.

## **FM- 402 : International Financial Management.**

Max Marks. 100

External : 70

Internal : 30

Time: 3Hours

**Note:** - The examiner will set eight questions in all. Question No.1, Comprising of seven short answer type questions, shall be compulsory. In all, the students would be required to attempt five questions. All Questions will carry equal marks.

### **Objectives**

The objective of this paper is to give students an overall view of the international financial system and how multinational corporations operate.

### **Course Contents**

Finance function in multinational firm; Institutional structure of international financial markets; cost and availability of international financial flows; international financial instruments. International Working capital Management; Aspects of international cash management; international receivables management; securitization of receivables.

International investment : factors and benefits; direct and portfolio investment; international CAPM; Capital budgeting for foreign direct investment; assessing and managing political risk. International aspects of raising capital; determining financial structure of foreign subsidiaries of MNCs; financial choices for an MNC and its foreign affiliates; cost and risks of financing.

### **Suggested Reading :**

1. Maurice D. Levi : International Finance, McGraw Hill, NY.
2. A Buckley : Multinational Finance, Prentice – Hall, N. Delhi.
3. P.G. Apte : International Financial Management, TATA McGraw Hills, New Delhi
4. A.C. Shapro : Multinational Financial Management Prentice Hall, N. Delhi.

The list of cases and specific references including recent articles will be announced in the class at the time of launching of the course.

## **FM – 403 : Management Control System**

Max Marks. 100

External : 70

Internal : 30

Time: 3Hours

**Note:** - The examiner will set eight questions in all. Question No.1, Comprising of seven short answer type questions, shall be compulsory. In all, the students would be required to attempt five questions. All Questions will carry equal marks.

### **Objectives :**

The Main objective of the course is to appraise the students the about the concept of management control system as well as its role in efficient management of public system organizations.

### **Course Contents :**

Management Control – Concept, Nature and Scope; Organisation Goals, Strategic Planning and Implementations, Organisation Structure, Contingency Theory, Organizational Climate, Position of Controller in the Organisation Structure of an Organisation; Management Control Process; Programming, Budgetary Planning and Procedures. Budgetary Control; Flexible Budgeting, Zero – base Budgeting, Performance Budgeting, Accounting Aspects of Control including Internal Audit and Control, Analysis and Reporting, Variance Reporting Management Control Structure; Responsibility Centre, Responsibility Accounting, Costs Centre, Profit Centre, Inter – divisional Transfer Pricing, Measurement of Divisional Performance including Performance Evaluation – Qualitative and Quantitative, Investment Centre; Behavioural Aspects of Management Control; Motivation and Morale, Goal Congruence, Management Control in Specialised Organization: Selected Case studies on Non-profit and Public Service Organisations.

### **Suggested Readings :**

1. Suggested, R.N. and Govindrajan V : Management Control Systems, 8<sup>th</sup> ed., Taraporevala, Chicago, Irwin, 1995.
2. Emmanuel, C and otley, D. : Accounting for Management Control, London, Nostrand Rienhold, 1985.
3. Ghosh, P.K. and Gupta, g.S. : Cost Analysis and Control New Delhi, Vision 1985.
4. Glynn, JJ. : Value for Money, Auditing in Public Sector. London, Prentice Hall Inc., 1985.
5. Horsey, P and Blanchard, H.B. : Management of Organisation Behaviour : Utilising Human Resources, New Delhi, Prentice Hall of India. 1998.
6. Maciariello J. A. and Kirby C.J. : Management Control System. Englewood Cliffs, New Jersey, Prentice Hall Inc. 1994.

The list of cases and specific references including recent articles will be announced in the class at the time of launching of the course.

## FM-404: Financial Derivatives

Max Marks. 100

External : 70

Internal : 30

Time: 3Hours

**Note:** - The examiner will set eight questions in all. Question No.1, Comprising of seven short answer type questions, shall be compulsory. In all, the students would be required to attempt five questions. All Questions will carry equal marks.

### Objectives

The objective of this course is to give an in depth knowledge of the functioning of derivative securities market.

### Course Contents:

Financial Derivatives – An Introduction. Forward Contracts; Future Contracts; Other Derivative Securities; types of Traders; Futures Markets and the use of Futures for Hedging; forward and future prices; Interest Rate Futures; Swaps; Options Markets; Properties of Stock Option Prices; Trading Strategies Involving Options; Black – Scholes Option Model; Binomial Model; Options on Stock indices; Currencies Futures Contracts; General Approach to Pricing Derivatives Securities; Derivatives Market in India.

### Suggested Reading :

1. Bhalla, V. K. : Investment Management; Security Analysis and Portfolio Management, New Delhi, S. Chand, 2001.
2. Financial Derivatives : Delhi, S. Chand, 2001.
3. Brennet, M. : Option Pricing : Theory & Applications, Toronto, Lexington Books, 1993.
4. Cox, John C and Rubinstein : Mark Options Markets, Englewood Cliffs, New Jersey, Prentice Hall Inc., 1985.

5. Huang, Stanley S.C. and Randall, Maury R. : Investment analysis and Management, London, Allyn and Bacon, 1987.
6. Hull, John C.: Options, Futures and Other Derivative Securities 2<sup>nd</sup> ed., New Delhi, Prentice Hall of India, 1996.
7. Sharpe, William F. etc. : Investment, New Delhi, Prentice Hall of India, 1997.

The list of case and specific references including recent articles will be announced in the class at the time of launching of the course.

## FM- 405: Management of Financial Services

Max Marks. 100

External : 70

Internal : 30

Time: 3Hours

**Note:** - The examiner will set eight questions in all. Question No.1, Comprising of seven short answer type questions, shall be compulsory. In all, the students would be required to attempt five questions. All Questions will carry equal marks.

### **Objectives:**

The main objective of this course is to help students to learn the various financial services and their role in the overall financial system.

### **Course Contents**

Financial Services : Meaning, Nature and Types.

Leasing : Concept, Classification, Accounting, Legal and Tax Aspects of Leasing; Financial Evaluation of leasing.

Factoring : Meaning, Characteristics and Types of Factoring arrangements, Factoring in India, Factoring vs.

Forfeiting. Hire Purchase Finance and Consumer Credit : Conceptual FrameWork; Legal Aspects; Taxation; Accounting and Reporting; Financial Evaluation of Hire Purchase Finance, Features of Consumer Credit.

Housing Finance : Introduction, NHB's Housing Finance Companies Directions, Prudential Norms, Housing Finance Schemes.

Credit Rating: Meaning and Types; Benefits of Credit rating to investors and companies. Credit Rating Agencies; Objectives and Functions.

Credit Cards: Concept and Significance; Types of Credit Cards, Credit Card Business in India.

Book Building: Concept and Mechanism of Book Building; Significance and Benefits of Book Building.

Bought Out Deals: Meaning and Nature; Mechanisms of Bought out Deals; Advantages; The Present Scenario.

Securitisation: Concept, Mode, Mechanism and Beneficiaries of Securitisation; Securitisation in India.

Depository system; Benefits of depository; Depository system in India.

Venture Capital : Meaning, Modes of Financing.

Role and Functions of Merchant Bankers.

**Suggested Reading :**

1. Khan, M.Y.: Management of Financial Services, McGraw Hill, 2001.
2. Gordan, E and K. Natrajan : Emerging Scenario of Financial Services. Himalaya Publishing House, 1997.
3. Meidan, Arthur Brennet, M. : Option Pricing: Theory & Applications, Toronto, Lexington Books, 1983.
4. Kim, Suk and Kim, Seung : Global Corporate Finance: Text and cases, 2<sup>nd</sup> ed., Miami Florida, Kotb, 1993.

The list of case and specific references including recent articles will be announced in the class at the time of launching of the course.

## **FM- 406 : Project Management**

Max Marks. 100

External : 70

Internal : 30

Time: 3Hours

**Note:** - The examiner will set eight questions in all. Question No.1, Comprising of seven short answer type questions, shall be compulsory. In all, the students would be required to attempt five questions. All Questions will carry equal marks.

### **Objectives**

The basic purpose of this course is to understand the framework for evaluating capital expenditure proposals, their planning and management in the review of the projects undertaken.

### **Course Contents**

Generation and Screening of Project Idea; Capital Expenditure; Importance and Difficulties; Market Demand and Situational Analysis; Technical Analysis; Financial Analysis; Analysis of Project Risks; Firm Risk and Market Risk; Social Cost and Benefit Analysis; Multiple Projects and Constraints; Network Techniques for Project Management; Project Review and Administrative Aspects; Project Financing in India; Problem of Time and Cost Overrun in Public Sector Enterprises in India; Assessment of the Tax Burden; Environment Appraisal of Projects.

### **Suggested Reading**

1. w. Ahuja, G.K. & Gupta, Ravi : Systematic Approach to Income Tax, Allahabad, Bharat Law House, 1997.
2. Bhalla, V.K. : Financial Management and Policy, 2<sup>nd</sup> ed., New Delhi, Anmol, 1998.
3. Chandra, Prasanna : Projects : Preparation, Appraisal, Budgeting and Implementation, 3<sup>rd</sup> ed., New Delhi, Tata McGraw Hill, 1987.

4. Dhankar, Raj S.: Financial Management of Public Sector Undertakings. New Delhi, Westville, 1995.

The list of case and specific references including recent articles will be announced in the class at the time of launching of the course.

## FM- 407 : Portfolio Management

Max Marks. 100

External : 70

Internal : 30

Time: 3Hours

**Note:** - The examiner will set eight questions in all. Question No.1, Comprising of seven short answer type questions, shall be compulsory. In all, the students would be required to attempt five questions. All Questions will carry equal marks.

### Course Contents

Introduction – Meaning, Need, risk & return determination of a portfolio, Markowitz portfolio theory, Sharp simple index model and APT; Optimal portfolio : selection & problems; Efficient Frontier; Meaning

& Construction and investors utility; Efficient frontier (i) risk – free and (ii) risky lending and borrowing, leveraged portfolio; market portfolio; capital market line; CAPM; security market line; characteristic line; Portfolio revision – Meaning, need and constraints; formula plan; constant – dollar – value plan, constant ratio plan, variable ratio plan. Bond portfolio management strategies – passive portfolio strategies, active portfolio strategies; portfolio performance evaluation, risk adjusted performance measures.

### Suggested Reading :

1. Alexander, Gordon J. and Sharpe, William F. : Fundamentals of Investment, Englewood Cliffs, New Jersey, Prentice Hall Inc.
2. Kevin : Portfolio Management, Prentice Hall of India, New Delhi.
3. Sharpe : Investments, Prentice Hall of India, New Delhi.
4. Strong : Portfolio Management, Thomson Learning, Bombay.
5. Elton, Edwin J. and Gruber, Martin J.: Modern Portfolio Theory and Investment Analysis, New York, John-Wiley.
6. Reilly, Frank K. : Investment Analysis and Portfolio Management, Dryden Press.

7. Fischer Donald E. and Jordan, Renold J. : Security Analysis and Portfolio Management.

The list of case and specific references including recent articles will be announced in the class at the time of launching of the course.

## MARKETING

### MM-301: Advertising Management

Max. Marks: 100

External : 70

Internal : 30

Time : 3 Hours

**Note:-** the examiner will set eight questions in all. Question no. 1, comprising of seven short answer type questions, shall be compulsory. There would be one question in the form of case study. In all, the students would be required to attempt five questions. All questions will carry equal marks.

#### **Objective:**

The aim of the paper is to acquaint the students with concepts, techniques and give experience in the application of concepts for developing an effective advertising programme.

#### **Course Contents:**

Advertising : Concepts, Types, forms and Importance. Role of advertising in the Marketing Process: legal, Ethical and Social Aspects of Advertising; Process of Communication – Wilbur Schramm's Model, Two – Step Flow of Communication, theory of Cognitive Dissonance and Clues for Advertising Strategist; Stimulation of Primary and Selective Demand – Advertising, Planning and Objective Setting: Dagmar Approach. Determination of Target Audience; Building of Advertising Programme – Message, Headlines, Copy, Logo, Illustration, Appeal, Layout; Campaign Planning; Media Planning; Budgeting; Evaluation – Rationale of Testing Opinion and Aptitude Tests, Measurement of Advertising Effectiveness; Advertising of an Agency; Electronic Media Buying. Advertising and Consumer Behaviour: Role of Creativity in Advertising.

#### **Suggested Readings:**

1. Belch, George E and Belch, Michael A. : Introduction to Advertising and Promotion, 3<sup>rd</sup> ed, Chicago, Irwin, 2002.
2. Arens and Bovee : Contemporary Advertising, Irwin, 1995.
3. Sandage and Fryberger : Advertising, AITBS, Delhi, 2000.
4. Batra, Rajeev, Myers, Johan G. and Aaker, David A. Advertising Management, 4<sup>th</sup> ed., New Delhi, prentice Hall of India, 2002.
5. O, Guinn : Advertising & Integrated Brand Production, Vikas Publishing House, New Delhi.
6. Kleppner, Otto : Advertising Procedure, Englewood Cliffs, New Jersey, Prentice Hall Inc., 1986.
7. Wells, William, Burnett, Johan & Moriarty Sandara, PHI, 2002.

The list of cases and specific specific references including recent articles will be announced in the class at the time of launching of the course.

## MM-302 : Sales Management

Max. Marks : 100

External : 70

Internal : 30

Time : 3 Hours

**Note :-** The examiner will set eight questions in all. Questions No.1, comprising of seven short answer type questions, shall be compulsory. In all the students would be required to attempt five questions. All Questions will carry equal marks.

### Objective

The purpose of this paper is to acquaint the students with the concepts which are helpful in developing a sound sales and distribution policy and in organizing and managing sales force and marketing channels.

### Course Contents

Nature, Scope and Objectives of Sales Management; Theories of selling; Functions of Sales Manger; Selling Operations; Personal selling, Salesmanship; Sales forecasting; Determination of size of sales force; Sales organization: Recruitment and conducting sales training programmes; Designing and Administering Compensation plan; Motivating and supervising sales personnel; Sales Meetings and Contests; Designing Territories and allocating sales budgeting and Control; International Sales Management.

### Suggested Readings:

1. Anderson, R. & Hair : Professional Sales Management, Tata McGraw Hill, New Delhi, 2000.
2. Manning & Reece : Selling Today, Pearson Education Asia, 8<sup>th</sup> Edition.
3. Dalrymple, D.J. : Sales Management : Concepts and Cases. New York, John-Wiley, 1989.
4. Still, R & Govoni : Sales Management, Prentice Hall Inc., 1988.
5. Lancaster & Jobber : Selling and Sales Management, Macmillan India, 3<sup>rd</sup> edition.
6. Calvin : Sales Management. Tata McGraw Hill, New Delhi.

7. Futrell, Charles : Sales Management. Thomson Learning Mumbai.

The list of cases and specific references including recent articles will be announced in the class at the time of launching of the course.

## **MM-303: Product and Brand Management**

Max. Marks : 100

External : 70

Internal : 30

Time : 3 Hours

**Note :-** The examiner will set eight questions in all. Questions No.1, comprising of seven short answer type questions, shall be compulsory. In all the students would be required to attempt five questions. All Questions will carry equal marks.

### **Objectives**

The objective of this course is to impart in – depth knowledge to the students regarding the theory and practice life cycle and Product and Brand Management.

### **Course Contents**

Product Planning and Management: Product concepts and levels; Product line and mix decisions; Product life cycle and marketing strategy implications. New Product Development Process : Developing Product Strategy; Financial Analysis of Product Management. Branding Strategies; Importance of branding; Branding terminology; Basic branding concepts- Brand awareness, brand personality, brand image, brand identity, brand loyalty, brand equity; Product versus Corporate Branding.

Major Branding Decisions : Selecting a brand name; Brand extension decision; Family versus individual brand names, Multiple branding; Private versus national branding, Handling brand name changes. Brand Positioning and Re-launch : Brand building and communication.

Branding in Specific Sectors: Customer, industrial, retail, service brands, E-branding, Branding for international marketing.

Programme to built Brand Equity, Measurement of Brand Equity.

**Suggested Readings :**

1. Lehmann, Donald R. and Winer, Russel S. : Product Management, Tata McGraw Hill, 3<sup>rd</sup> edition, 2002.
2. Aaker, David, A.: Managing Brand Equity, New York, Free Press, 1991.
3. Copley, Don. : Understanding Brands, London, Kogan Page, 1991.
4. Czemiawski, Richard D. & Michael W. Maloney : Creating Brand Loyalty, AMACOM, NY, 1999.
5. Kapferer, J N. : Strategic Brand Management, New York, Free Press, 1992.
6. Upshaw, Lyh B. : Building Brand Identity: A Strategy for Success in a Hostile Market place, New York, John Wiley, 1995.
7. Keller, Kevin Lane : Strategic Brand Management, Prentice Hall, 1998.

The list of cases and specific references including recent articles will be announced in the class at the time of launching of the course.

## **MM-304 : Consumer Behaviour**

Max. Marks : 100

External : 70

Internal : 30

Time : 3 Hours

**Note :-** The examiner will set eight questions in all. Questions No.1, comprising of seven short answer type questions, shall be compulsory. In all the students would be required to attempt five questions. All Questions will carry equal marks.

### **Objectives**

The basic objective of this course is to develop an understanding about the consumer decision – making process and its applications in marketing function of firms.

### **Course Contents**

Introduction to Consumer Behaviour, Consumer Behaviour and Marketing Strategy; Consumer Involvement and Decision-Making; Information

Search Process; Evaluative Criteria and Decision Rules; Consumer Motivation, Information Processing and Consumer Perception; Consumer Attitudes and Attitudes Change; Influence of Personality and Self-Concept on Buying Behaviour; Psycho-graphics and Lifestyle; Influence of Culture, Subculture and social class; Reference Group Influence, Diffusion of Innovation and Opinion Leadership; Family Decision – Making; Industrial Buying Behaviour; Models of Consumer Behaviour; Consumer Behaviour Audit.

### **Suggested Readings :**

1. Assael, H. : Consumer Behaviour and Marketing Action, Asian Books Pvt.Ltd., New Delhi, 2001.
2. Engle, J. E. etc. : Consumer Behaviour: Chicago, Dryden Press, 1993.
3. Hawkings, D. I. etc. : Consumer Behaviour: Implications for Marketing Strategy, TMH, 2002.
4. Schiffman, LG and Kanuk, L. L. : Consumer Behaviour. New Delhi, PrenticeHall of India, 1994.

5. Loudon & Loudon : Consumer Behaviour, TMH, New Delhi.
6. Solomon, Michael E. Consumer Behaviour, Buying; Having, Being, PHI/Pearson Edu., New Delhi.

The list of cases and specific references including recent articles will be announced in the class at the time of launching of the course

## **MM-305 : Distribution and Logistics Management**

Max.Marks : 100

External : 70

Internal : 30

Time : 3 Hours

**Note :-** The examiner will set eight questions in all. Questions No.1, comprising of seven short answer type questions, shall be compulsory. In all the students would be required to attempt five questions. All Questions will carry equal marks.

### **Objectives**

The objective of this course is to enable students understand the importance and dynamics of a firm's physical distribution functions and management of its supply chain.

### **Course Contents**

Distribution Channels : Role of Marketing Channels, Channel Structure, Factors affecting choice of Distribution; Channels behaviour and Organisation; Channels Cooperation and Channels Conflict; Distribution Intensity. Introduction to Distribution Logistics : Nature importance and scope of logistic decisions; Integrated logistics; Total cost concept; Supply chain management – nature importance and interface with logistics; Concept of Customer service.

Transportation and Physical Distribution; Importance and modes of transportation; Selection of transportation modes; Multi – modal transportation; Documentation and carrier liabilities; Inter – state good movement and problems; Transportation management. Inventory Control : Economic order quantity under conditions of certainty and uncertainty; Inventory requirements as function of number of stock locations: Techniques of inventory control.

Warehousing : Role and modern concept of warehousing; Private V/s public warehousing; Planning warehousing operations; Site selection, warehouse layout, material handling; Management of receipts and issues; computers and warehouses management Order Processing

: Importance to customers service; Packaging and utilization. Distribution Control and Performance Evaluation.

**Suggested Readings :**

1. Bowersox and Others : Physical Distribution Management, Tata McGraw Hill, New Delhi.
2. Stern, Louis W. Adel, I.E.L. Ansary, Anne T. Coughlan : Marketing Channels, Prentice Hall, New Delhi.
3. Glaskowsky, N.A. : Business Logistics, Dryden Press, Ohio.
4. Khanna, K.K. : Physical Distribution Management, Himalaya Publishing House, New Delhi.
5. Lambert, D. et. Al. : Strategic Logistics Management, Tata McGraw Hill, New Delhi.
6. Ballu, Ronald H. : Business Logistics Management, Englewood Cliffs, New York, Prentice Hall Inc., 1999.
7. Martin, Christopher and Gordon Wills : Marketing Logistics and Distribution Management.

The list of cases and specific references including recent articles will be announced in the class at the time of launching of the course.

## MM – 306: Retailing

Max .Marks: 100

External: 70

Internal: 30

Time : 3 Hours

**Note:** - The examiner will set eight questions in all. Questions No.1, comprising of seven short answer type questions, shall be compulsory. In all the students would be required to attempt five questions. All Questions will carry equal marks.

**Objectives :** The course will focus on manufactures, perspective on retailers and understanding of the retail business.

### Course Contents

An Introduction to the Retailing System. Retailing mix – Social forces, Economic forces, Technological forces, Competitive force; Retailing definition, Structure, Different formats; marketing Concepts in Retailing – Consumer purchase behaviour, Cultural and Social group influence on consumer Purchase Behaviour; Retail Store location – Traffic flow and analysis, population and its mobility, exteriors and layout, Customer traffic flows and pattern, Creative display; Merchandise planning – Stock turns, Credit Management, Retail Pricing, Return on per sq. feet of space; Retail promotions – Staying ahead of competition; Supply Chain Management; Franchising, Direct Marketing/Direct Selling, Exclusive Shops, Destination Stores, Chain Stores, Discount Stores and other current and emerging formats – Issue and Options; Retail Equity; Technology in Retailing; Retailing through the Internet.

### Suggested Readings :

1. Berman, Berry & Evans, Joel & R. : Retail Management : A Strategic Approach, PHI/Pearson Education, New Delhi.
2. Levy Michael & Weitz Barten W. : Retailing Management, Tata McGraw Hill, New Delhi.

3. Newiman, Andrew J. & Cullen, Peter : Retailing Environment & Operations; Vikas Publishing House, New Delhi.
4. Duane: Retailing Thomson Learning, Mumbai.
5. Gilber, David : Retail Marketing Management, Paerson Education, New Delhi.
6. Diamond, Jay and Gerald Pintel : Retailing, Prentice-Hall, NJ, 1996.
7. Morgenstein, Melvin and Harriat : Strong in Modern Retailing, Prentice-Hall, NJ,1992.

The list of cases and specific references including recent articles will be announced in the class at the time of launching of the course.

## MM-307 : Marketing Research

Max.Marks : 100

External : 70

Internal : 30

Time : 3 Hours

**Note :-** The examiner will set eight questions in all. Questions No.1, comprising of seven short answer type questions, shall be compulsory. In all the students would be required to attempt five questions. All Questions will carry equal marks.

### Objectives

The purpose of this course is to enable students learn the process, tools and techniques of marketing research.

### Course Contents

Introduction to Marketing Research, Importance, nature and scope of marketing research; marketing information system and marketing research; Marketing research process, Organization of MR Department, Ethical issues in MR, MR in India, Role of MR Agencies.

Problem Identification and Research Design : Problem  
identification and definition : Development of a

research proposal: Types of research designs.

Data Resource: Secondary data sources and usage; Online data sources; Primary data collection methods – questioning techniques, online surveys, observation method; Questionnaire preparation.

Aptitude measurement and scaling techniques – elementary introduction to measurement scales. Sampling Plan : Universe, sample frame and sampling unit; Sampling techniques; Sample

size determination. Data Collection : Organisation of field work and survey errors – Sampling and non – sampling errors.

Data Analysis: Hypothesis testing, tests of significance (Parametric & non –parametric) Univariate, bivariate and multivariate data analysis; Report preparation and presentation.

Marketing Research Applications: Product research; Advertising research; Sales and Market research; International marketing research.

**Suggested Reading :**

1. Boyd. H.W. Ralph Westfall and S.F. Starsh : Marketing Research: Text and Cases, Richard D. Irwin, Boston.
  2. Chisnall, peter M: The Essence of Marketing Research, Prentice Hall, New Delhi.
  3. Churchill, Gilbert. A : Basic Marketing Research, Dryden Press, Boston.
  4. Green Paul E. Donald S. Tull and Gerald Albaum : Research for Marketing Decision, Prentice Hall, New Delhi.
  5. Luck, D.J. : Marketing Research, Prentice Hall, New Delhi.
  6. Tull, Donald and Hawkin, Del : Marketing Research : Measurement and Method, Prentice Hall, New Delhi.
  7. Beri, G.C. : Marketing Research, Tata McGraw Hill, New Delhi.
- The list of cases and specific references including recent articles will be announced in the class at the time of launching of the course.



## **MARKETING**

### **MM-401 : International Marketing**

Max Marks. 100

External : 70

Internal : 30

Time: 3Hours

**Note:** - The examiner will set eight questions in all. Question No.1, Comprising of seven short answer type questions, shall be compulsory. In all, the students would be required to attempt five questions. All Questions will carry equal marks.

#### **Objectives :**

The basic objective of this course is to acquaint the students with environmental, procedural, institutional and decisional aspects of international marketing.

#### **Course Contents**

International Marketing: Definitions, nature, scope and benefits; reasons and motivations underlying International Trade and International Business; basic modes for entry; process of International Marketing; Domestic Marketing versus International Marketing.

International Marketing Environment, WTO Framework and International Marketing; Factors influencing International Market selection and segmentation, Selection strategies. International Marketing Planning and Control.

International Marketing Mix: International product policy and planning International product mix, Branding, labeling, packaging and organization of product warranties and services. International pricing policies strategies, the process of price setting, pricing decisions, information for pricing decisions. International Advertising: International advertising strategy, elements of advertising strategy, media strategy. International Distribution Management: International Distribution Channels, International distribution policy, selecting distribution channels.

#### **Suggested Reading**

1. Vern Terpestra and Ravi Sarthy : International Marketing, Thosmson.
2. Simon Majaro : International Marketing.
3. John, Fayerweather : International Marketing.
4. R. L. Varshney and B. Bhattacharya : International Marketing; Sultan Chand Publication, N. Delhi.
5. Sak Onkvisit and John Shaw : International Marketing ( Analysis and Strategy), PHI, N. Delhi.

The list of case and specific references including recent articles will be announced in the class at the time of launching of the course.

## MM-402 : Industrial Marketing

Max Marks. 100

External : 70

Internal : 30

Time: 3Hours

**Note:** - The examiner will set eight questions in all. Question No.1, Comprising of seven short answer type questions, shall be compulsory. In all, the students would be required to attempt five questions. All Questions will carry equal marks.

### Objectives

The objective of this course is to lay a foundation for an understanding of the complex dimension of the Industrial Marketing

### Course contents

Nature and scope of International Marketing: Differences between Industrial Marketing and consumer marketing; understanding Industrial Markets; Organizational Customers; Classifying Industrial products; nature of demand in Industrial Markets; Industrial Buyer Behavior; Industrial Purchasing System: Industrial Marketing Research: Industrial Marketing Strategy: Strategic planning. Assessing Marketing Opportunities, segmentation of Industrial Markets, Product Positioning: Product Decision and Strategies; Industrial Services; Industrial Pricing: Price Determinants, Pricing Policies, Pricing Decisions, Formulating Channel Strategy; Logistics Management; Industrial Marketing Communication: Sales force Management, Advertising and sales promotion.

### Suggested readings

1. Reader Robert R. Industrial Marketing Analysis, Planning and control Englewood Cliffs, New Jersey, Prentice Hal Inc. 1991.
2. Vitale; Business to Business Marketing; Thomson Learning, Mumbai.
3. Havalder Krishna K, Industrial Marketing, TMH, New Delhi.
4. Corey E Raymond, Industrial Marketing: Cases and concepts, 3<sup>rd</sup> ed. Englewood cliffs, New Jersey Prentice Hall Inc. 1983.

5. Gross AC Business Marketing Boston, Houghton Mifflin, 1993.
6. Hill, Richard etc. Industrial Marketing. Homewood Illinois, Richard D. Irwin, 1975.
7. Webster, FE. Industrial Marketing Strategy, 2<sup>nd</sup> ed. New York John Wiley, 1979.
8. Alexander S. Ralph cross – Industrial Marketing.
9. Reeder Robert R., “Industrial Marketing” PHI.

The list of cases and specific references including recent articles will be announced in the class at the time launching of the course.

## MM 403: SERVICE MARKETING

Max. Marks: 100

External: 70

internal : 30

Time :3 Hours

**Note :-** The examiner will set eight questions in all. Question No.1, comprising of seven short answer type questions, shall be compulsory. In all, the students would be required to attempt five questions. All Questions will carry equal marks.

### Objectives

The objective of this course is to develop insights into emerging trends in the service in a developing economy and tackle issues involved in the management of services on national basis.

### Course contents

The Emergence of Service Economy, Nature of Services, Difference in Goods and Services Marketing, Marketing Challenges in Service Businesses; Marketing Framework for Service Businesses; The Service Classification; Service Product Development; The Service Consumer Behaviour; Service Management Trinity; Service Vision and Service Strategy; Quality Issues and Quality Models; Managing Productivity and Differentiation in Service Organizations; Demand-supply Management; Advertising; Branding and Packaging of Services; Recovery Management; Relationship Marketing; Employee Empowerment. Customer Involvement in service.

### Suggested readings

1. Zeithaml V A and Bitner, M J. Services Marketing 3<sup>rd</sup> edition; McGraw Hill, New Delhi, 2002.
2. Lovelock, Christopher H. Service Marketing: People, Technology Strategy; 4<sup>th</sup> edition Pearson Education, New Delhi.
3. Hoffman & Bateson, Essentials of Service Marketing; Thomson Learning; Mumbai.
4. Shankar, Ravi, Service Marketing, Excel, 2002.
5. Rampal M.K. & Gupta SC; Service Marketing; Galgotia Publishing Company, New Delhi.

6. Rust, Zahorik and Kenningham, Services Marketing.
7. Medonald, Malcom and Payne, A Marketing Planning for services. Butterworth Heinemann, 1996.
8. Rampal & Gupta, "Service Marketing"
9. SN Jha, "Service Marketing" HPH.
10. Sarinivasan R., "Service Marketing" PHI.
11. Chaudhary Nimit & Monika Chaudhary, "A text book of Marketing & Services" McMillan.
12. Rama K., Rao Mohana, "Service Marketing" Pearson.

The list of cases and specific references including recent articles will be announced in the class at the time launching of the course.

## **MM-404: Direct Marketing**

Max. Marks: 100

External: 70

internal : 30

Time :3 Hours

**Note :-** The examiner will set eight questions in all. Question No.1, comprising of seven short answer type questions, shall be compulsory. In all, the students would be required to attempt five questions. All Questions will carry equal marks.

### **Objectives**

This course acquaints students with the need, significance, and operation of direct marketing.

### **Course Contents**

Direct Marketing : Definition, scope and importance of direct marketing ; Direct Marketing Modes – Tele Marketing, Catalogue Marketing Network Marketing, Data-base Marketing, Changing face of Direct Marketing.

Elements of Direct Marketing : Planning a direct marketing programme; Direct Marketing and developing new business; Guidelines for effective direct marketing – likely pitfalls, rules for success.

Institutional Direct Marketing : Industrial Direct Marketing; Retail Direct Marketing; Dealer – identified direct marketing. Segmentation and Target Marketing; Marketing Mix for Direct Marketing; Product, price, place and promotion strategies.

Direct Marketing Operations : Planning direct marketing campaign; Communication for direct marketing; Media planning; Fulfilment and customer service – receiving and processing orders, inventory and warehousing decision, and customer service.

Tools and Techniques : Role of information technology in direct marketing; Developing customer data base; cost analysis and cost control of direct marketing; Evaluation effectiveness of Direct marketing. Application of Direct Marketing: Financial services marketing, Fund raising; Customer loyalty programmes.

## **Suggested Reading**

1. McDonald, William J. : Direct Marketing, TMH, New Delhi, 1998.
2. Bird Dryayton : Common Sense Direct Marketing, Kogan Page, London.
3. Bob Stone : Successful Direct Marketing Methods, NTC, Chicage.
4. Edward, Nash : The Direct Marketing Handbook, Tata McGraw Hill, New Delhi.
5. Edward, Nash : Direct Marketing, TMH, New Delhi, 1992.
6. Roberts, M.L. and P.D. Berger : Direct Marketing Management, Prentice Hall, New Jersey.
7. Stone, Martin, Derek Davies and Alison Bond : Direct Hit, Macmilian, New Delhi.

The list of cases and specific references including recent articles will be announced in the class at the time launching of the course.

## MM 405: RURAL AND AGRICULTURAL MARKETING

Max. Marks: 100

External: 70

internal : 30

Time :3 Hours

**Note :-** The examiner will set eight questions in all. Question No.1, comprising of seven short answer type questions, shall be compulsory. In all, the students would be required to attempt five questions. All Questions will carry equal marks.

### Objectives

The objective of the course is to express the students to the rural market environment and the emerging challenges in the globalization of the economies.

### Course contents

Nature, characteristics and the potential of Rural Markets in India, Socia-cultural, economic & other environmental factors affecting rural marketing: attitudes and behaviour of the rural consumers and farmers; Marketing of consumer durables and non-durable goods and services in the rural markets with special reference to product planning; media planning: planning of distribution channels and organizing personal selling in rural markets in India. Marketing of agricultural inputs with special reference to fertilizers, seeds, Farm input & pesticides: Organization and function of agricultural marketing in India. Classification of agriculture product with particular reference to seasonality and perishability; Marketing structure and performance; Processing facilities for different agricultural products. Role of warehousing; Determination of agricultural prices and marketing margins; Role of agricultural price commission. Role of Central and state Governments. Institutions and organization in agricultural marketing; Unique features of commodity market in India; Problems of agricultural marketing; Nature, scope and role of co-operative marketing in India.

### Suggested readings

1. Arora RC Integrated Rural Development, 1979, Scharnd, New Delhi.
2. Desao. Vasat. Rural Development 1988, Himalaya Bombay.

3. Mishar, SN Politics and Society in Rural India. 1980, Inter India, Delhi.
4. Porter, Michael, E. Competitive Strategy. 1980 Free Press, New York.
5. Rudra Ashok. Indian Agricultural Economics. Myths and realities, 1982 Allied New Delhi.
6. Stalk, George, Competing Against Time 1990, Free Press New Delhi.
7. Gopaldaswamy T.P. Rural Marketing, Wheeler Pub., New Delhi.
8. Sukhpal Singh, "Rural Marketing- Focus on Agricultural Inputs" Vikas Publication.
9. Ramakeshary Y., "Rural Marketing- Focus on Agricultural Inputs" Jaicob Publication.
10. S.H. Acharya & NL Aggarwal, "Agricultural Marketing in India" IBH.
11. Ramakrishanayn, "Rural Marketing" Pearson.
12. SL Gupta, "Rural Marketing - Text & Cases" WP.
13. Awadesh Kumar Singh, Satya Prakash Pandey, "Rural Marketing Indian Perspective"  
New age.

The list of cases and specific references including recent articles will be announced in the class at the time launching of the course.

## MM-406 : Marketing Communication Strategy

Max. Marks: 100

External: 70

internal : 30

Time :3 Hours

**Note :-** The examiner will set eight questions in all. Question No.1, comprising of seven short answer type questions, shall be compulsory. In all, the students would be required to attempt five questions. All Questions will carry equal marks.

### Objectives

The objective of this course is to make the students understand the intricate process of marketing communication, and how each tool of communication contribute to the overall communication strategy.

### Course Contents

The Communication Process – The nature of communication. A Basic Model of Communication – source Encoding, Message, Channel, Receiver/Decoding, noise, Response/Feedback. Analysing the Receiver, the Response Process, Cognitive Processing of Communications –the cognitive Response Approach, the Elaboration Likelihood Model.

Establishing objectives for integrated Marketing communication programs – The value of objectives – communications, planning & decision making, determining Promotional Objectives – Marketing versus communication objectives, Sales versus Communication Objectives – sales-oriented objective, communication objectives.

Creative Strategy, Planning and Development, The importance of Creativity in Advertising, Advertising Creativity, Planning Creative Strategy – The creative challenge, Taking Creative Risks, creative Personnel, the Creative Process, Creative Strategy Development.

Creative Strategy: Implementation and Evaluation: Appeals and Execution Styles, Creative Tactics – Creative Tactics for print advertising, Creative Tactics for Television.

The Internet and integrated marketing communications Advertising, Sales Promotion on the Internet, Personal Selling on the Internet, Public Relations on the Internet, Direct Marketing on the Internet. The Process of Public Relations-Developing & Executing the PR Programme, Publicity.

### Suggested Reading

1. George E. Belch & Michael A. Belch : Advertising & Promotion – An Integrated Marketing Communications Perspective.
2. Kotler Philip : Analysis, Planning, Implementation & Control, Pearson Education, Delhi.
3. Blythe : Marketing Communication, Pearson Education, New Delhi.
4. Tom Duncan : Integrated Marketing Communication, TMH, New Delhi.
5. O’Guinn, : Advertising, Vikas Publishing House, New Delhi.

The list of cases and specific references including recent articles will be announced in the class at the time launching of the course.

## HUMAN RESOURCE MANAGEMENT

### HRM-301: Management of Industrial Relations

Max Marks:100

External :70

Internal : 30

Time : 3 Hours

**Note:-** The examiner will set eight questions in all. Question, No.1, comprising of seven short answer type questions, shall be compulsory. In all, the students would be required to attempt five questions. All Questions will carry equal marks

#### Objectives

Organisational efficiency and performance are intricately interlinked with industrial relations. This course is an attempt to appreciate the conceptual aspects of industrial relations at the macro and micro levels.

#### Course Contents

Industrial relations Perspectives; Industrial Relations and the emerging socio-economic scenario; Industrial Relations and the State; Legal Framework of Industrial Relations; Role of trade unions; Trade union and the employees; Trade union and the management; Discipline and grievance management; Negotiation and collective settlements; Participative management and co-ownership; Productive bargaining; Employee empowerment and quality management; Industrial relations and technological change; ILO and industrial relations.

#### Suggested Readings:

1. Kochan. T.A. & Katz Henry : Collective Bargaining and Industrial Relations, 2<sup>nd</sup> ed., Homewood, Illinois, Richard D Irwin, 1988.
2. Mamkoottam, K : Trade Unionism, Myth and Reality, Oxford University Press, New Delhi, 1982.
3. Niland, J.R. etc. : The Future of Industrial Relations Sage New Delhi, 1994.
4. Papola, T S & Roger, G. : Labour Institutions and Economic Development in India, ILO, Geneva, 1992.
5. Ramaswamy, E. A. – The Rayon Spinners : The Strategic Management of Industrial Relations, Oxford University Press, New Delhi, 1994.

6. Virmani, B.R. : Participative Management vs. Collective Bargaining, New Delhi, Vision Books, 1988. Webb, Sidney & Webb, Beatrice. Industrial Democracy, Lognman, Melbourne 1987.

The list of cases and specific references including recent articles will be announced in the class at time of launching of the course.

## **HRM-302: Management of Comparative Industrial Relations**

Max.Marks : 100

External : 70

Internal : 30

Time : 3 Hours

**Note :-** The examiner will set eight questions in all. Questions No.1, comprising of seven short answer type questions, required to attempt five questions. All Questions will carry equal marks.

### **Objectives**

Recent years have witnessed an increasing degree of globalization of economies. Appreciation of industrial relations policies and practices of major economies would be necessary to perform efficiently in the liberalized environment. This course aims to familiarize students in the major industrial relations systems operating in different economic, political and cultural contexts.

### **Course Contents**

Industrial relations globalization; Emerging Trends in industrial relations; Trade union strategies towards liberalization and technological change; Employee response to industrial restructuring and organizational re-engineering; Emerging trends in collective bargaining and negotiations; Productivity bargaining and wage negotiations; Employee empowerment and participative decision-making; Changing role of the State and industrial relations in the developed newly developed and developing economies.

### **Suggested Readings**

1. Adams, R.J. & Meltz N. M. ed. : Industrial Relations Theory, Its Nature, Scope & Pedagogy, LMR Press/Rutgers University, 1993.
2. Bamber, G. J. & Lansbury R.D. ed. : International and Comparative Industrialized Market Economies, Routledge, London, 1993
3. Davis, E. M. & Lansbury, R.D. ed. : Managing Together Consultation and Participation in the Workplace, Longman, Melbourne, 1996.
4. Frankel, S. & Harrod, J. : Industrialization and Labour Relations : Contemporary Research in Seven Countries, ILR Press, Ithaca, 1995.
5. Gardner, M & Harrod, J. : Industrialization and Labour Relations : Contemporary Research in Seven Countries, ILR Press, Ithaca, 1995.
6. Jacoby, S. M: The Workers of Nations: Industrial Relations in Globalized Economy, Oxford University Press, Oxford, 1994.

7. Locke, R. etc.: Employment Relations in a Changing World Economy, MIT Press, Cambridge, 1995.  
The list of cases and specific references including recent articles will be announced in the class at the time of launching of the course.

## **HRM-303: Manpower Development for Technological Change.**

Max.Marks : 100

External : 70

Internal : 30

Time : 3 Hours

Time : 3 Hours

**Note :-** The examiner will set eight questions in all. Questions No.1, comprising of seven short answer type questions, required to attempt five questions. All Questions will carry equal marks.

### **Objectives:**

Recent years have witnessed rapid technological changes affecting industry and business in different ways. This course aims to discuss the major aspects of technological change and the kind of human resource management strategies and steps which may equip the organization and its human resources to adequately cope with such change.

### **Course Contents**

Manpower management in the 21<sup>st</sup> Century; Environmental context of human resource management; the emerging profile of human resources; Changing technology; Concept and process of technological innovation; Organisational implications of technological change; Transformation; Human resources implications of technological change; Performance/potential evaluation in the context of new technology; Technology transfer with human face; New issues in manpower training and career development.

### **Suggested Reading:**

1. Clark, Jon : Managing Innovation and Change, University of Southampton, 1995.
2. Clark, Jon : Human Resource Management and Technology Change, Sage, London, 1993.
3. Gampbell, A and Warner, M. : New Technology, Skills, and Management, Routledge, London, 1992.
4. Rastogi, P.N. : Management of Technology and Innovation, Sage, New Delhi, 1995.
5. Warner, M. : New Technology and Manufacturing Management, Wiley, London, 1990.
6. Womack, J.P. etc. : The Machine That Changed the World, Maxwell Macmillan, New York, 1990.
7. Shittaker, D. H. : Managing Innovation, Cambridge University Press, Cambridge, 1990.

The list of cases and specific references including recent articles will be announced in the class at the time of launching of the course.

## **HRM-304: Compensation Management.**

Max.Marks : 100

External : 70

Internal : 30

Time : 3 Hours

**Note :-** The examiner will set eight questions in all. Questions No.1, comprising of seven short answer type questions, shall be compulsory. In all the students would be required to attempt five questions. All Questions will carry equal marks.

### **Objectives:**

The course is designed to promote understanding of issues related to the compensation or rewarding human resources in the corporate sector, public services and other forms of organizations and to impart skills in designing, analyzing and restructuring reward management systems, policies and strategies.

### **Course Contents**

Understanding of economic theory related to reward management; Competitive imperatives; productivity, quality, service, speed, learning; Planning for improved competitiveness; Determination of inter and intra-industry compensation differentials; Internal and external equity in compensation systems; Understanding and compensation packages; compensation of chief executives, senior managers, R & D Staff, etc.; Understanding different components of compensation packages; compensation practices of multinational corporations and strategic compensation systems; Statutory provisions governing different components of reward systems; Working of different institutions related to reward system like wage boards, pay commissions.

### **Suggest Reading:**

1. Armstrong, Michel and Murlis, Helen : Reward Management: A Handbook of Salary Administration, London, Kegan Paul, 1988.
2. Bergess, Lenard R. : Wage and Salary Administration, London, Charles E-Merril, 1984.
3. Capeman, George : Employees Share Ownership, New York, Kogan Page, 1991.
4. Hart, Robert A : Economics of Non-Wage Labour Costs, London, George Allen and Unwin, 1984.
5. Henderson, Richard I : Compensation Management : Rewarding Performance, 6<sup>th</sup> ed., Englewood Cliffs. Prentice Hall Inc., 1994.

6. Micton, Rock. : Handbook of Wage and Salary Administration, 1984.  
The list of cases and specific references including recent articles will be announced in the class at the time of launching of course.

## HAM-305 : Managing Interpersonal and Group Processes

Max.Marks : 100

External

: 70

Internal : 30

Time : 3 Hours

**Note** :- The examiner will set eight questions in all. Questions No.1, comprising of seven short answer type questions, shall be compulsory. In all the students would be required to attempt five questions. All Questions will carry equal marks.

### Objectives

The purpose of this course is to advance understanding regarding interpersonal and group processes and help the student to examine and develop process facilitation skills mainly through laboratory and other experience-based methods of learning.

### Course Contents

Group as a medium of learning : Developing and change; Group cohesiveness; Influence processes; communication; Interpersonal awareness and feedback process; Interpersonal trust; Group decision-making; Group synergy; Team building; Fundamental interpersonal relations orientation (**FIRO-B**); Career roles and identity; Competition and cooperation.

### Suggested Readings :

1. Bennis, W.G. : Essay in Interpersonal Dynamics, U.S.A., Dorsey Press, 1979.
2. Kolb, D. etc : Organizational Behaviour: An Experiential Approach 5<sup>th</sup> ed., Englewood Cliffs, New Jersey, Hall Inc., 1991.
3. Kolb, D. etc : Organizational Behaviour : Practical Readings for Management, 5<sup>th</sup> ed., Englewood Cliffs, New Jersey Prentice Hall Inc., 1991.

4. Mainiero, L.A. & Tromley C.L. : Developing Managerial Dkills in OB, New Delhi, Prentice Hall of India, 1985.
5. Moore, M.D. etc. : Inside Organizations : Understanding the Human dimensions, London, Sage, 1988.

The list of cases and specific references including recent articles will be announced in the class at the time of launching of the curse.

## **HRM-306 : Human Resource Planning and Development**

Max. Marks : 100

External

: 70

Internal : 30

Time : 3 Hours

**Note :-** The examiner will set eight questions in all. Questions No.1, comprising of seven short answer type questions, shall be compulsory. In all the students would be required to attempt five questions. All Questions will carry equal marks.

### **Objectives**

The objective of this paper is to develop a conceptual as well as a practical understanding of Human Resource Planning, Deployment and Development in organizations.

### **Course Contents**

Micro level manpower planning and labour market analysis; Organisational human resource planning; Workforce flow mapping; Age and grade distribution mapping; Models and techniques of manpower demand and supply forecasting; Behavioural factors in human resource planning – Wastage analysis; Retention; Redeployment and exit strategies; Career Management and career planning; Performance planning; Potentials appraisal and career development: HRD Climate; Culture; QWL; HRD strategies; HRD in strategic organizations; Human resource information system; Human resource valuation and accounting.

### **Suggested Readings :**

1. Arthur, M. : Career Theory Handbook, Englewood Cliffs, Prentice Hall Inc., 1991
2. Belkaoui, A. R. and Belkaoui, J.M. : Human Resource Valuation: A Guide to Strategies and Techniques, Greenwood, Quorum Books, 1995.
3. Dale, B. : Total Quality and Human Resources: An Executives Guide, Oxford, Blackwell, 1992.

4. Greenhaus, J.H. : Career Management, New York, Dryden, 1987.
5. Kavanagh, M. J. etc. : Human Resource Information System: Development and Applications, Boston, PWS-Kent, 1993.
6. Mabey, C and Salama, G. : Strategic Human Resource Management, Oxford, Blackwell, 1995.
7. Thomson, R and Mabey, C. : Developing Human Resource Oxford, Butterworth- Heinemann, 1994. The list of cases and specific references including recent articles will be announced in the class at the time of launching of the course.

## HRM – 401: Counselling Skills for Managers

Max. Marks: 100

External: 70

internal : 30

Time :3 Hours

**Note :-** The examiner will set eight questions in all. Question No.1, comprising of seven short answer type questions, shall be compulsory. In all, the students would be required to attempt five questions. All Questions will carry equal marks.

### Objectives:

To develop basic skills among students to independently handle a wide range of employee counseling and performance counseling.

### Course Contents

Emergence and growth of counseling services: Approaches to counselling; Counselling process – beginning, developing and terminating a counseling relationship and follow up counselor's attitude and skills of counseling; coping with occupational stress in the organizations; Assessing client's problems; Selection counseling strategies and interventions – changing behaviour through counseling; Special problems in counseling; Application of counseling to organizational situations with a focus on performance counseling.

### Suggested Reading

1. Cormenr, L.S. and Hackney, H. : The Professional Counsellor's Process Guide Helping, Englewood Cliffs, New Jersey , Prentice Hall Inc., 1987.
2. Maclennan, Nigel : Counselling for Managers, Aldershot, Grover, 1996.
3. Moursund, J. : The Process of Counselling and Therapy, 2<sup>nd</sup> ed., Englewood Cliffs, Prentice Hall Inc., New Jersey, 1990.
4. Munro, C. A., etc. : Counselling : A Skills Approach, Methuen, 1980.
5. Reddy, Michael : Counselling at Work British Psychological Society and Methuen, London and New York, 1987.

The list of cases and specific references including recent articles will be announced in the class at the time launching of the course.

## HRM 402: LEGAL FRAMEWORK GOVERNING HUMAN RELATIONS

Max. Marks: 100

External: 70

internal : 30

Time :3 Hours

**Note :-** The examiner will set eight questions in all. Question No.1, comprising of seven short answer type questions, shall be compulsory. In all, the students would be required to attempt five questions. All Questions will carry equal marks.

### Objectives

Understanding of the legal framework is important for the efficient decision making relating to human resource management and industrial relations. The course aims to provide an understanding, application and interpretation of the various labour laws and their implications for industrial relations and labour issues.

### Course contents

Emergence and objective of labour laws and their socio-economic environment; laws relating to industrial disputes, trade unions; social security laws- laws relating to workmen's compensation, employees state insurance, wages and bonus laws – the law of minimum wages, payment of wages, laws relating to working conditions – the laws relating to factories, interpretations of labour laws, their working and implications for management , union workmen; The economy and the industry.

### Suggested readings

1. Ghaiye BR Law and Procedure of Department Enquiry in Private and Public Sector, Eastern Law Company, Lucknow, 1994.
2. Malhotra, O.P. the Law of Industrial Disputes, Vol. 1 and 2 NM Tripathi, Bombay 1985.
3. Malik P.L. Handbook of Industrial Law, Eastern Book Lucknow, 1995.
4. Saini, Debi S. Labour Judiciary, Adjudication and Industrial Justice. Oxford, University Press New Delhi, 1994.

5. Saini Debi. S. Redressal of Labour Grievances, Claims and disputes. Oxford & IBH New Delhi. 1995.
6. Seth D. D. Industrial Dispute Act 1947 Vol. I & II NM Tripathi, Bombay, 1995.
7. Srivastava SC "Industrial Relations and labour Law", Vikas, New Delhi, 1994.
8. Kapoor ND., Chand and Sons Sultan, "Mercantile Law" New Delhi, 2001.
9. Chhabra TN, Suri RK, "Industrial Relation" Dhanpat Rai.

The list of cases and specific references including recent articles will be announced in the class at the time launching of the course.

## HRM 403 : MANAGEMENT TRAINING AND DEVELOPMENT

Max. Marks: 100

External: 70

internal : 30

Time :3 Hours

**Note :-** The examiner will set eight questions in all. Question No.1, comprising of seven short answer type questions, shall be compulsory. In all, the students would be required to attempt five questions. All Questions will carry equal marks.

### Objectives

The purpose of this paper is to provide an in-depth understanding of the role of Training in the HRD, and to enable the course students to manage the Training systems and processes.

### Course contents

Training Process – an overview; role responsibilities and challenges to training manager organization and management of training function; Training needs assessment and action research; Instructional objectives and lesson planning; learning process; Training climate and pedagogy; Training methods and techniques; Training aids; Training communication: Training evaluation; Training and development in India.

### Suggested readings

1. Beunet, Roger ed. Improving Training Effectiveness. Aldershot, 1988.
2. Buckley R & Caple, Jim. The Theory & Practice of Training, London, Kogan & Page. 1995.
3. Lynton, R. Pareek, U. Training for Development. 2<sup>nd</sup> ed. Vol. I, Vol-II, Vistaar, New Delhi, 1990.
4. Pepper, Allan D. Managing the Training and Development Function. Aldershot, Gower, 1984.
5. Rae, L. How to measure Training Effectiveness. Aldershot Gorwer, 1986.
6. Reid, M A etc. training Interventions: Managing Employee Development. 3<sup>rd</sup> ed. IPM, London, 1992.

7. Senge, P. The Fifth Discipline; The art and practice of the learning organization, Century London. 1992.
8. Sahu RK, " Management Training for Development" Excel Publication.

The list of cases and specific references including recent articles will be announced in the class at the time launching of the course.

## HRM 404 : ORGANIZATIONAL CHANGE AND INTERVENTION STRATEGIES

Max. Marks: 100

External: 70

internal : 30

Time :3 Hours

**Note :-** The examiner will set eight questions in all. Question No.1, comprising of seven short answer type questions, shall be compulsory. In all, the students would be required to attempt five questions. All Questions will carry equal marks.

### Objectives

The objective of this paper is to make the students learn about the organizational change and prepare them as change facilitators using the knowledge and techniques of behavioral science.

### Course contents

Organizational change- and overview, approaches to problem diagnosis; some major Techniques of planned change; Steps in OD, General OD competencies, OD skills, designing interventions- interpersonal, team, intergroup and system; Evaluation of OD; Ethics of OD professional; Future of OD; Internal and External Consultant; Excellence of management by chief executives.

### Suggested readings

1. Abad, Ahmad etc. Developing Effective organization. Shri Ram Center for Industrial Relations. New Delhi. 1980.
2. De Nitish, Alternative designs of Human Organizations. Sage, London, 1988.
3. French, W H. and Bell, Ch. Organizations Development. Prentice hall of India. New Delhi, 1991.
4. French, W L. etc. organization Development theory, Practice and research 3<sup>rd</sup> ed. Unive Book Stall, New Delhi, 1990.
5. Harvey, D F. and Brown, D R. An Experiential Approach to Organization Development. Prentice Hall Inc., Jersey, 1990.
6. Huse, F E. and cummings, T G. Organizations, Development and Change. 3<sup>rd</sup> ed. New York, West, 1985.

7. Dharani Sinha, P. etc. consultants and Consulting styles. Vision, New Delhi. 1992.
8. Singh Kavita, "Organizational change & Development" EB.

The list of cases and specific references including recent articles will be announced in the class at the time launching of the course.

## HRM 405: HUMAN RESOURCE DEVELOPMENT: STRATEGIES AND SYSTEMS

Max. Marks: 100

External: 70

internal : 30

Time :3 Hours

**Note :-** The examiner will set eight questions in all. Question No.1, comprising of seven short answer type questions, shall be compulsory. In all, the students would be required to attempt five questions. All Questions will carry equal marks.

### Objectives

The purpose of this paper is to facilitate and understanding of the concepts methods and strategies for HRD

### Course contents

Field of HRD - Concepts, goals, challenges, HRD climate and practices in India; Staffing HRD function;

Developing HR strategies; HRD system design principles; Design & administration of select HRD systems;

HRD for workers; HRD intervention; HRD approaches for coping with organizational changes.

### Suggested readings

1. Dayal, Ishwar. Successful Application of HRD. New concepts, New Delhi. 1996.
2. Dayal Ishwar. Designing HRD Systems. Concept, New Delhi, 1993.
3. Kohli, Uddesh & Sinha, Dharni P. HRD - Global Challenges & Strategies in 2000 AD ISTD, New Delhi. 1995.
4. Maheshwari, B L. & Sinha Dharni P. Management of Change Through HRD. TATA McGraw Hill, New Delhi, 1991.
5. Pareek, U. etc. Managing Transactions: The HRD Response. Tata McGraw hill. New Delhi, 1992.
6. Rao, TV etc. alternative Approaches & Strategies of Human Resource Development. Rawat, Jaipur, 1988.

7. Silver, DN HRD: The Indian Experience. India, New Delhi, 1991.
8. Tripathi RC, "HRD" Sultan Publication.
9. Gupta Santosh & Deep Sachin Gupta, "Human Resource Development" Publications.
10. Subbarao P., "Human Resource Development" HPH.
11. Kaushal H., "Human Resource Development" McMillan.
12. Kundala Sarinivas R., "Human Resource Development & Management" PHI.

The list of cases and specific references including recent articles will be announced in the class at the time launching of the course.

## HRM – 406: Global Human Resource Management

Max. Marks: 100

External: 70

internal : 30

Time :3 Hours

**Note :-** The examiner will set eight questions in all. Question No.1, comprising of seven short answer type questions, shall be compulsory. In all, the students would be required to attempt five questions. All Questions will carry equal marks.

### Objectives:

The objective of this course is to develop a diagnostic and conceptual undertaking of the cultural and related behavioural variables in the Human Resource Management of global organisations.

### Course Contents

Human and cultural variables in global organizations; Cultures in organisations and Hofstede's study; Structural evolution of global organizations; Cross cultural leadership; motivation and decision making; Cross cultural communication and negotiation; Human Resource management in global organizations; selection, source criteria for international assignment; Compensation and appraisal system.

### Suggested Reading

1. Adler, N. J. : International Dimensions of Organizational Behaviour, Kent pub. , Boston, 1991.
2. Bartlett, C and Ghoshal, S. : Transnational Management: Text, Cases and Readings in Cross Border Management, Irwin, Chicago, 1995.
3. Dowling, P. J. etc., : International Dimensions of Human Resource Management, 2<sup>nd</sup> ed., Wadsworth, California, 1994.
4. Hofstede, G. : Cultures Consequence: International Difference in Work Related Values. 2<sup>nd</sup> edition, Sage, London, 2001.
5. Marcis, D and Puffer, S. M. : Management International: Cases, Exercises and Readings, West Publishing, St. Paul, 1994.

6. Mead, R. : International Management : Cross Cultural Dimensions, Blackwell, Cambridge, 1994.
7. Ronen, S. : Comparative and Multinational Managements, John Wiley, New York, 1986.

The list of cases and specific references including recent articles will be announced in the class at the time launching of the course.

- **Laboratory facilities exclusive to the Post Graduate Course:** Not Applicable
- **Special Purpose:** Not Applicable
- **Software, all design tools in case:** Not Applicable
- **Academic Calendar and frame work:**



**KURUKSHETRA UNIVERSITY KURUKSHETRA**  
(Established by the State Legislature Act XII of 1956)  
(‘A’ Grade, NAAC Accredited)

**NOTIFICATION**

The following Schedule of Academic Calendar be observed by all the Engg. Colleges/Institutes maintained/affiliated to Kurukshetra University for the Academic Session 2018-19.

EVENT	ODD SEMESTER	EVEN SEMESTER
Teaching	For Old Students: 16.07.2018 to 20.11.2018 For Newly admitted Students: 01.08.2018 to 20.11.2018	15.01.2019 to 30.04.2019
Practical Exams.	21.11.2018 to 28.11.2018	01.05.2019 to 08.05.2019
Preparatory Holidays	29.11.2018 to 07.12.2018	09.05.2019 to 16.05.2019
Theory Exams.	08.12.2018 to 02.01.2019	17.05.2019 to 12.06.2019
Vacation/Break	23.12.2018 to 10.01.2019 (Winter Break)	23.05.2019 to 07.07.2019 (Summer Break)
Uploading of Marks by the concerned Institute	26.11.2018 to 05.12.2018	03.05.2019 to 14.05.2019

**SESSIONAL EXAMINATION SCHEDULE (Centralized)**

EVENT	ODD SEMESTER	EVEN SEMESTER
Sessional-I	15 <sup>th</sup> , 17 <sup>th</sup> & 18 <sup>th</sup> Sept., 2018	25 <sup>th</sup> to 27 <sup>th</sup> Feb., 2019
Sessional-II	22 <sup>nd</sup> , 23 <sup>rd</sup> & 25 <sup>th</sup> Oct., 2018	30 <sup>th</sup> March, 1 <sup>st</sup> & 2 <sup>nd</sup> April, 2019
Sessional-III	17 <sup>th</sup> , 19 <sup>th</sup> , & 20 <sup>th</sup> Nov, 2018	27 <sup>th</sup> , 29 <sup>th</sup> & 30 <sup>th</sup> April, 2019
Display of Sessional Test Sheets/Marks to Students		Within 10 days of Sessional Exam.

**Commencement of next academic session: w.e.f. 15.07.2019**

- Note :**
1. If the number of teaching/working days falls less than 180 days (90 days in each semester) in the academic session 2018-19 due to some unforeseen reasons, it would be the responsibility of each Department/Institute/College to make good the loss by arranging extra classes as & when required.
  2. The students must adhere to the fulfillment of minimum attendance conditions regarding the classes.

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**16. Enrollment of students in the last 3 years**

S. No.	Branch Name	2016-17		2017-18		2018-19	
		Intake	Admission	Intake	Admission	Intake	Admission
1.	Civil Engg.	60	56	60	62	60	29
2.	Electrical Engg.	60	24	30	32	60	29
3.	Mechanical Engg.	120	64	90	72	90	52
Total		240	144	180	166	210	110

- **List of Research Projects/ Consultancy Works:**
- **Number of Projects carried out, funding agency, Grant received**

S.N	Project Name	Funding Agency	Grant Received
1.	Lathe Milling Attachment	NIL	NIL
2.	Bicycle Operated Spray Pump	NIL	NIL
3.	Harvesting Machine Model	NIL	NIL
4.	Building Estimation	NIL	NIL
5.	Suspension Bridge Model	NIL	NIL
6.	Rotating Bridge over a River	NIL	NIL

- **Publications (if any) out of research in last three years out of masters projects:** NIL
- **Industry Linkage:** Strong Industry Linkage, Recently, in compliance of AICTE, institute signed MOU with 05 industries for better teaching learning, internships,expert talks and placements.

**MoUs with Industries (minimum 3):** The MOUs with the following 05 companies has been signed or better teaching learning, internships,expert talks and placements.

S.N	Name of Company	Area of Production
1.	Rider Auto Industries, Rai Sonipat, Haryana	Mfg. of Auto Parts
2.	Tulip Enterprises, Haridwar, Uttrakhand	Mfg. of Seat Covers & Accessories
3.	Pal Radiators & Oil Coolers, Rai Sonipat, Haryana	Radiators & Sheet Metal Products
4.	Choudhary Enterprises, Rai Sonipat	Mfg. of Car Accessories
5.	Tulip International, Rai Sonipat	Mfg. of Car Accessories

**19. Accounted audited statement for the last three years**



M/S SHARMA & BANSAL  
CHARTERED ACCOUNTANTS

OFFICE NO.-8, FIRST FLOOR,  
SAINI SAMAJ BHAWAN,  
KURUKSHETRA-136118  
PHONE NO.-9416011421

TECHNOLOGY EDUCATION & RESEARCH INSTITUTE  
INCOME & EXPENDITURE FOR THE YEAR ENDED 31.03.16

EXPENDITURE	AMOUNT	INCOME	AMOUNT
ACADEMIC EXPENSES	6699217.00	ADMISSION FEES	41805853.00
ADMINISTRATIVE EXPENSES	11907828.00	OTHER RECEIPTS	795085.00
DEPRECIATION ON ASSETS	14549647.10		
FINANCIAL EXPENSES	319320.11		
SALARY	20970957.00		
	<b>54446969.21</b>		<b>42690938.00</b>
		EXCESS OF EXPENDITURE OVER INCOME	11756031.21
	<b>54446969.21</b>		<b>54446969.21</b>

AUDITOR'S REPORT  
AS PER OUR SEPARATE REPORT ATTACH OF EVEN DATE

FOR SHARMA & BANSAL  
(CHARTERED ACCOUNTANTS)  
(C.A.) SUNIL SHARMA  
(PARTNER)

PLACE : KURUKSHETRA  
DATED : 12/10/2016

**TECHNOLOGY EDUCATION & RESEARCH INSTITUTE**

**SCHEDULE OF FIXED ASSETS (2015-16)**

SL.	PARTICULAR	ORIGINAL COST AS ON 01/04/2015	WDV. AS ON 01/04/2015	ADDITION		TOTAL	RATE OF DEP.	DEP.	WDV. AS ON 31.03.2016	ORIGINAL COST AS ON 31.03.2016
				BEFORE 01/04/2015	AFTER 01/04/2015					
1	BUILDING	217264317	122037946	50287.00	1482783.00	12463596.70	10%	1246040.10	112034505.00	219308986.70
2	AIRCONDITIONERS	1566895.83	583977.83	0.00	0.00	83977.83	15%	8197.00	496380.83	1566895.83
3	COMPUTER EQUIPMENTS	21116755.4	332973.40	214438.00	0.00	547412.40	60%	328467.00	21865.40	21331184.40
4	ELECTRICAL & ELECTRONICS EQUIPMENTS	3447889.62	1285588.62	0.00	0.00	1285588.62	15%	19338.00	1062750.62	3447889.62
5	FURNITURE & FIXTURES	8238477.25	4872779.25	0.00	20100.00	4892879.25	10%	489287.90	4404091.35	8238477.25
6	LAB EQUIPMENTS/ MACHINERY	14279730.7	5623776.70	7236.00	0.00	569613.70	15%	85411.00	4841990.70	14323233.70
7	LIBRARY BOOKS	4674072.00	2305847.00	67288.00	0.00	2373135.00	15%	353885.00	2005668.00	4725358.00
8	LIBRARY EQUIPMENTS	101482.00	34123.00	0.00	0.00	34123.00	15%	5118.00	25005.00	101482.00
9	OFFICE EQUIPMENTS	514873.00	170384.00	0.00	0.00	170384.00	15%	25558.00	144826.00	514873.00
10	SPORTS EQUIPMENTS	712655.00	231688.00	0.00	0.00	231688.00	15%	34753.00	196935.00	712655.00
11	TELEPHONE EQUIPMENTS	188260.00	64149.00	0.00	0.00	64149.00	15%	9322.00	54827.00	188260.00
12	WATER COOLER/PURIFIER/ TANK	502589.00	211345.00	0.00	0.00	211345.00	15%	31702.00	179643.00	502589.00
13	GENSET	1018500.00	347549.00	0.00	0.00	347549.00	15%	52132.00	295417.00	1018500.00
14	OTHER EQUIPMENTS	656374.20	243787.20	0.00	0.00	243787.20	15%	35561.00	207266.20	656374.20
<b>TOTAL</b>		<b>275282776.70</b>	<b>13846994.79</b>	<b>60887.00</b>	<b>1502883.00</b>	<b>140748784.79</b>		<b>1464847.10</b>	<b>136200117.60</b>	<b>277856548.79</b>



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KURUKSHETRA-136118  
PHONE NO.-9416011421

TECHNOLOGY EDUCATION & RESEARCH INSTITUTE

BALANCE SHEET AS ON 31.03.17

LIABILITIES	AMOUNT	ASSETS	AMOUNT
<b>LOANS LIABILITIES</b>		<b>FIXED ASSETS</b>	135069094.53
TERM LOANS	93449230.51	AS PER ANNEXURE	
<b>CURRENT LIABILITIES &amp; PROVISIONS</b>		<b>CURRENT ASSETS</b>	
DUTIES & TAXES	51889.00	DEPOSIT (SECURITIES)	250690.00
SUNDRY CREDITORS	2329830.00	LOANS & ADVANCES	1448537.00
UNIVERSITY FEES	823750.00	RECEIVABLE FROM STUDENTS	19184918.00
UNIVERSITY ANSWER SHEET & OTHER	175000.00		
EXPENSE PAYABLES	3888164.00	<b>CASH &amp; BANK BALANCE</b>	
<b>LONG TERM LIABILITIES</b>		CASH	47015.00
SECURITY STAFF	919424.00	BANK	65608.34
<b>INTER TRANSFER</b>			
GYANKUND TRUST	54618475.36		
	<b>156055762.87</b>		<b>156055762.87</b>

AUDITOR'S REPORT  
AS PER OUR SEPARATE REPORT ATTACH OF EVEN DATE

PLACE : KURUKSHETRA  
DATED : 18/09/2017

(ACCOUNTANT)

FOR SHARMA & BANSAL  
(CHARTERED ACCOUNTANTS)  
(C.A.) SUNIL SHARMA  
(PARTNER)

M/S SHARMA & BANSAL  
CHARTERED ACCOUNTANTS

OFFICE NO.-8, FIRST FLOOR,  
SAINI SAMAJ BHAWAN,  
KURUKSHETRA-136118  
PHONE NO.-9416011421

TECHNOLOGY EDUCATION & RESEARCH INSTITUTE  
INCOME & EXPENDITURE FOR THE YEAR ENDED 31.03.17

EXPENDITURE	AMOUNT	INCOME	AMOUNT
ACADEMIC EXPENSES	5503832.00	ADMISSION FEES	45351847.00
ADMINISTRATIVE EXPENSES	14189428.00	HOSTEL FEES	15825034.00
DEPRECIATION ON ASSETS	11249420.00	TRANSPORT FEES	493538.00
FINANCIAL EXPENSES	12204315.30	OTHER RECEIPTS	2897273.25
HOSTEL EXPENSES	3971907.38		
TRANSPORT EXP.	1253727.00		
SALARY	15089667.00		
	<b>63462294.68</b>		<b>64567692.25</b>
EXCESS OF INCOME OVER EXPENDITURE	1106397.57		
	<b>64567692.25</b>		<b>64567692.25</b>

AUDITOR'S REPORT  
AS PER OUR SEPARATE REPORT ATTACH OF EVEN DATE

PLACE : KURUKSHETRA  
DATED : 18/09/2017

(ACCOUNTANT)

FOR SHARMA & BANSAL  
(CHARTERED ACCOUNTANTS)  
(C.A.) SUNIL SHARMA  
(PARTNER)

**TECHNOLOGY EDUCATION & RESEARCH INSTITUTE**

**SCHEDULE OF FIXED ASSETS (2016-17)**

SL.	PARTICULAR	ORIGINAL COST AS ON 01/04/2016	W.D.V. AS ON 01/04/2016	ADDITION		TOTAL	RATE OF DEP.	DEP.	W.D.V. AS ON 31.03.2017	ORIGINAL COST AS ON 31.03.2017
				BEFORE 01/10/2016	AFTER 01/10/2016					
1	BUILDING	21937996.70	112034555.50	303535.00	2815913.00	11485000.00	10%	7667000.00	107281003.50	222228414.70
2	AIRCONDITIONERS	199696.83	496380.83	0.00	0.00	496380.83	15%	74457.00	421923.83	1566956.83
3	COMPUTER EQUIPMENTS	21331194.40	218865.40	16000.00	160504.00	395469.40	60%	131379.00	284090.40	21507688.40
4	ELECTRICAL & ELECTRONICS EQUIPME	3447699.62	1062790.62	58665.00	33289.00	1161634.22	15%	163913.00	1018021.62	3536873.52
5	FURNITURE & FIXTURES	9258577.25	440496.25	11855.00	14988.00	4431440.25	10%	443144.00	3988300.25	9285421.25
6	LAB EQUIPMENTS/ MACHINERY	14387084.70	4841650.70	167211.00	57486.00	5066367.70	15%	725249.00	4340118.70	14611791.70
7	LIBRARY BOOKS	4723358.00	2003648.00	0.00	15486.00	2017134.00	10%	200366.00	1816768.00	4738644.00
8	LIBRARY EQUIPMENTS	101482.00	29005.00	0.00	0.00	29005.00	15%	4351.00	24654.00	101482.00
9	OFFICE EQUIPMENTS	514873.00	144026.00	0.00	0.00	144026.00	15%	21724.00	123102.00	514873.00
10	SPORTS EQUIPMENTS	719555.00	196030.00	0.00	24074.00	221029.00	15%	28540.00	191489.00	736729.00
11	TELEPHONE EQUIPMENTS	182650.00	50408.00	0.00	0.00	50408.00	15%	7951.00	42947.00	182650.00
12	WATER COOLER/PURIFIER/ TANK	252579.00	179644.00	0.00	7500.00	187144.00	15%	26847.00	160197.00	260079.00
13	GENSET	1018500.00	256417.00	0.00	0.00	256417.00	15%	44313.00	251704.00	1018500.00
14	OTHER EQUIPMENTS	871333.20	211325.20	0.00	14204.00	225529.20	15%	31699.00	193830.20	869537.20
<b>TOTAL</b>		<b>27896548.70</b>	<b>12920417.60</b>	<b>554495.00</b>	<b>2841455.00</b>	<b>12866608.60</b>		<b>968958.00</b>	<b>12012610.60</b>	<b>281182499.70</b>

**ASSETS TRF. FROM HOSTEL**

1	BUILDING	29400448.91	15460793.78	0.00	0.00	15460793.78	10%	1546079.00	13920114.78	29400448.91
2	ELECTRICALS & ELECTRICAL EQUIPME	131214.00	70478.40	0.00	0.00	70478.40	15%	10572.00	59906.40	131214.00
3	FURNITURE & FIXTURES	1329613.80	781303.80	0.00	0.00	781303.80	10%	78130.00	703173.80	1329613.80
4	TUBEWELL	60662.32	13652.92	0.00	0.00	13652.92	15%	2078.00	11774.92	60662.32
5	OTHER EQUIPMENTS	50099.83	28007.03	0.00	0.00	28007.03	15%	4203.00	23804.03	50099.83
<b>TOTAL</b>		<b>31476498.86</b>	<b>16613445.93</b>	<b>0.00</b>	<b>0.00</b>	<b>16612445.93</b>	<b>0.00</b>	<b>1679492.00</b>	<b>14932953.93</b>	<b>31476498.86</b>

**GRAND TOTAL**

<b>GRAND TOTAL</b>		<b>309182647.56</b>	<b>142812953.53</b>	<b>554495.00</b>	<b>2841455.00</b>	<b>146328514.53</b>	<b>0.00</b>	<b>112494.00</b>	<b>135658094.53</b>	<b>312658998.36</b>
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M/S SHARMA & BANSAL  
CHARTERED ACCOUNTANTS

OFFICE NO.-4, FIRST FLOOR,  
SAINI SAMAJ BHAWAN,  
KURUKSHETRA-136118  
PHONE NO.-9418011421

TECHNOLOGY EDUCATION & RESEARCH INSTITUTE

BALANCE SHEET AS ON 31.03.18

LIABILITIES	AMOUNT	ASSETS	AMOUNT
<b>LOANS LIABILITIES</b>		<b>FIXED ASSETS</b>	121448443.53
TERM LOANS	91748305.52	AS PER ANNEXURE	
<b>CURRENT LIABILITIES &amp; PROVISIONS</b>		<b>CURRENT ASSETS</b>	
DUTIES & TAXES	165477.00	DEPOSIT (SECURITIES)	443000.00
SUNDRY CREDITORS	2575801.20	LOANS & ADVANCES	19285791.00
UNIVERSITY ANSWER SHEET & OTHER	175000.00	RECEIVABLE FROM STUDENTS	26382272.00
SALARY PAYABLE	2769248.00		
<b>LONG TERM LIABILITIES</b>		<b>CASH &amp; BANK BALANCE</b>	
SECURITY STAFF	1901081.00	CASH	54802.00
SECURITY (STUDENTS)	4021668.00	BANK	166876.26
<b>INTER TRANSFER</b>			
GYANKUND TRUST	64821603.08		
	<b>167778184.79</b>		<b>167778184.79</b>

AUDITOR'S REPORT  
AS PER OUR SEPARATE REPORT ATTACHED OF EVEN DATE

PLACE : KURUKSHETRA  
DATED : 29/10/2018

(ACCOUNTANT)

FOR SHARMA & BANSAL  
(CHARTERED ACCOUNTANTS)  
(C.A.) SUNIL SHARMA  
(PARTNER)

MIS SHARMA & BANSAL  
CHARTERED ACCOUNTANTS

OFFICE NO.-8, FIRST FLOOR,  
SAINI SAMAJ BHAWAN ,  
KURUKSHETRA-136118  
PHONE NO.-9416011421

TECHNOLOGY EDUCATION & RESEARCH INSTITUTE

INCOME & EXPENDITURE FOR THE YEAR ENDED 31.03.18

EXPENDITURE	AMOUNT	INCOME	AMOUNT
ACADEMIC EXPENSES	10992183.77	ADMISSION FEES	31301253.00
ADMINISTRATIVE EXPENSES	3172929.24	HOSTEL FEES	27833486.00
DEPRECIATION ON ASSETS	13938986.00	TRANSPORT FEES	570600.00
FINANCIAL EXPENSES	14240693.40	OTHER RECEIPTS	6152895.60
HOSTEL EXPENSES	5812831.20		
TRANSPORT EXP.	1417374.60		
SALARY	15359523.00		
	<b>64934521.21</b>		<b>65868434.60</b>
EXCESS OF INCOME OVER EXP.	933913.39		
	<b>65868434.60</b>		<b>65868434.60</b>

AUDITOR'S REPORT

AS PER OUR SEPARATE REPORT ATTACHED OF EVEN DATE

PLACE : KURUKSHETRA  
DATED : 29/10/2018

(ACCOUNTANT)

FOR SHARMA & BANSAL  
(CHARTERED ACCOUNTANTS)  
(C.A.) SUNIL SHARMA  
(PARTNER)

**TECHNOLOGY EDUCATION & RESEARCH INSTITUTE**

**SCHEDULE OF FIXED ASSETS (2017-18)**

SL.	PARTICULAR	ORIGINAL COST AS ON 01/04/2017	W.D.V. AS ON 01/04/2017	ADDITION		TOTAL	RATE OF DEP.	DEP.	W.D.V. AS ON 31.03.2018	ORIGINAL COST AS ON 31.03.2018
				BEFORE 01/10/2017	AFTER 01/10/2017					
1	BUILDING	251630083.61	121207118.38	0.00	0.00	121207118.38	10%	12120713.00	109086405.38	251630083.61
2	AIRCONDITIONERS	1569595.83	421923.83	0.00	0.00	421923.83	15%	63289.00	358634.83	1569595.83
3	COMPUTER EQUIPMENTS	2150766.40	284090.40	0.00	180306.00	457608.40	40%	105636.00	351940.40	21701234.40
4	ELECTRICAL & ELECTRONICS EQUIPME	368087.62	1077628.02	0.00	0.00	1077628.02	15%	161669.00	916239.02	368087.62
5	FURNITURE & FIXTURES	10606035.05	4684154.05	0.00	0.00	4684154.05	10%	468415.00	4224739.05	10606035.05
6	LAB EQUIPMENTS/ MACHINERY	14611791.70	4340118.70	13369.00	37744.00	4391221.70	15%	651019.00	3740203.70	14622884.70
7	LIBRARY BOOKS	4739844.00	1816769.00	24819.00	24870.00	1866558.00	10%	181677.00	1684881.00	4739844.00
8	LIBRARY EQUIPMENTS	101482.00	24654.00	0.00	0.00	24654.00	15%	3696.00	20958.00	101482.00
9	OFFICE EQUIPMENTS	514873.00	123102.00	0.00	0.00	123102.00	15%	18465.00	104637.00	514873.00
10	SPORTS EQUIPMENTS	736729.00	191469.00	0.00	31907.00	223376.00	10%	28726.00	194650.00	736729.00
11	TELEPHONE EQUIPMENTS	160260.00	42847.00	0.00	0.00	42847.00	15%	6427.00	36420.00	160260.00
12	WATER COOLER/PURIFIER/ TANK	260075.00	160197.00	0.00	0.00	160197.00	15%	24000.00	136167.00	260075.00
13	GENSET	1018500.00	291104.00	0.00	0.00	291104.00	15%	37666.00	213438.00	1018500.00
14	TUBEWELL	60952.32	11774.82	0.00	0.00	11774.82	15%	1766.00	10008.82	60952.32
15	OTHER EQUIPMENTS	1445607.03	431844.23	0.00	0.00	431844.23	15%	64777.00	367067.23	1445607.03
<b>TOTAL</b>		<b>312659986.56</b>	<b>1305994.43</b>	<b>38178.00</b>	<b>288157.00</b>	<b>13036429.43</b>		<b>1933996.00</b>	<b>121446443.53</b>	<b>312659335.56</b>



**20. Best Practices adopted, if any**

S.N	Best Practices
1.	NPTEL Online Courses
2.	Virtual Labs
3.	Celebration of all Festivals
4.	Industrial Visits in Every Semesters

5.	Industrial based Expert Talks
6.	On Hand Practical Environment