

## Courses for Aug-Nov 2016

**Note:** Students may take courses of other disciplines as electives, in addition to the courses listed as electives for their disciplines, subject to prerequisites/consent of teacher, the max. number of students allowed in that course and time table slotting. They should also get consent of their FA if interested.

Sr. No.	Course No.	Course Title	Credits L-T-P-C	Instr.	1 <sup>st</sup> Sem	3 <sup>rd</sup> Sem CS	3 <sup>rd</sup> Sem EE	3 <sup>rd</sup> Sem ME	3 <sup>rd</sup> Sem CE	5 <sup>th</sup> Sem CS	5 <sup>th</sup> Sem EE	5 <sup>th</sup> Sem ME	7 <sup>th</sup> Sem CS	7 <sup>th</sup> Sem EE	7 <sup>th</sup> Sem ME	1 <sup>st</sup> sem Mtech	Description
13.	IC 136	Understanding Biotechnology and Its Applications	3-0-0-3	SKM		C	C	C	C								<a href="#">View</a>
14.	IC 221	Foundations of Electrodynamics	2.5-0.5-0-3	CSY		C	C	C	C								<a href="#">View</a>
15.	IC 222P	Physics Practicum	0-0-3-2	Ajay		C	C	C	C								<a href="#">View</a>
16.	IC 240	Mechanics of Rigid Bodies	1.5-1.5-0-3	UKV		C	C	C	C								<a href="#">View</a>
17.	IC 241	Materials Science for Engineers	3-0-0-3	JKR		C	C	C	C								<a href="#">View</a>
18.	IC 250	Programming and Data Structure Practicum	1-0-3-3	AN, SK,DVP, AKS,Dileep		C	C	C	C								<a href="#">View</a>
19.	IC 260	Signals and System	3-0-0-3	TJ		C	C	C	C								<a href="#">View</a>
20.	CS 207	Applied Database Practicum	0-0-3-2	Arti		C											<a href="#">View</a>
21.	CS 208	Mathematical Foundations of Computer Science	3-1-0-4	Astrid		C											<a href="#">View</a>
22.	ME 205	Machine Drawing	1-0-4-3	RK Lab: RK		E	E	C	E								<a href="#">View</a>
23.	HS 102	Art & Architecture	1-0-0-1	Tripti		E	E	E	E	E	E	E	E	E	E		<a href="#">View</a>
24.	HS 255	India Since Independence	3-0-0-3	MVD						E	E	E	E	E	E		<a href="#">View</a>
25.	HS 301	Policy Analysis and Advocacy Skills	3-0-0-3	VD		E	E	E	E								<a href="#">View</a>
26.	HS 502	Philosophy of Technology	3-0-0-3	PT						E	E	E	E	E	E		<a href="#">View</a>
27.	HS 352	German II	3-0-0-3	GS		E	E	E	E	E	E	E	E				<a href="#">View</a>
28.	CS 201	Computer Organization	3-0-0-3	SRC						C	C						<a href="#">View</a>

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29.	CS 201P	Computer Organization Lab	0-0-2-1	SRC						C	C							View
30.	CS 308	Large Applications Practicum	0-0-3-2	VD						C								View
31.	CS 310	Introduction to Communicating Distributed Processes	3-0-0-3	SK						C								View
32.	EE 311	Device Electronics for Integrated Circuits	3-0-0-3	KG			C				C							View
33.	EE 312P	Microelectronics Circuits Design Practicum	0-0-3-2	KG							C							View
34.	EE 304	Communication Theory	3-0-1-4	ST							C							View
35.	EE 305	Digital Signal Processing	4	AKS							E							View
36.	ME 206	Mechanics of Solids	2.5-0.5-0-3	Talha								C						View
37.	ME 303	Heat Transfer	2.5-0.5-0-3	pradeep								C						View
38.	ME 308	Manufacturing Engineering	3-0-0-3	SP								C						View
39.	ME 311P	Design Lab I	0-0-2-1	Talha, AG								C						View
40.	ME 305	Design of Machine Elements	3-1-0-4	RG											C			View
41.	ME 310P	Thermo-fluid lab	0-0-3-2	Atul, DVP											C			View

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42.	CE 201	Surveying: Traditional & Digital	2-0-2-3	RS,DPS Lab:RS,DPS					C									View
43.	CS xxx (TBD)	Knowledge Representation and Reasoning	3-0-0-3	DK						E	E		E	E				N.A.
44.	CS 303	Software Engineering	2-0-2-3	Dittrich (LC: SRC)						E	E	E	E	E	E			View
45.	CS 305	Artificial Intelligence	3-0-0-3	DK						E	E	E						View
46.	CS 304	Formal Languages and Automata Theory	3-0-0-3	MR						E								View
47.	CS 669	Pattern Recognition	3-1-0-4	Dileep						E	E		E	E				View
48.	CS 601	Probability & Random Processes	3-1-0-4	AB						E	E		E	E				View
49.	HS 205	Financial Accounting	3-0-0-3	PS						E	E	E	E	E	E			View
50.	HS 344	Introduction to Sociology	3-0-0-3	Surya		E	E	E	E									View
51.	HS 350	Traditional Media Arts	1-0-4-3	Tripti						E	E	E	E	E	E			View
52.	HS 391	Introduction to World History	3-0-0-3	RD		E	E	E	E	E	E	E	E	E	E			View
53.	CS 609	Speech Processing	3-0-2-4	PR									E	E				View
54.	EE 608	Digital Image Processing	3-0-2-4	AB									E	E				View
55.	EE 615	Nano Electronics and Nano Microfabrication	3-0-0-3	SKS	MS/PhD									E				View

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56.	EE 508	Fundamentals of Electric Drives	3-0-0-3	BJ											E			View
57.	EE 509	Linear Dynamical Systems	3	SD							E				E			View
58.	EE 519P	CMOS Digital IC Design Practicum	1-0-2-2	SRC	Mtech													View
59.	EE 520	Microelectronics Devices and Modeling	3-0-0-3	KG	Mtech (VLSI)													View
60.	EE 620	Advanced Digital Signal Processing	3-0-0-3	RMR	MTech (VLSI)													View
61.	EE 606	Introduction to High Voltage Engineering and Dielectric Breakdown	3-0-0-3	BSR	MS PhD/Mtech(EE)						E				E			View
62.	EE 609	Network Information Theory	3-0-0-3	ST											E			View
63.	EE 512	CMOS Analog IC Design	3-0-2-4	Hitesh	MS/PhD/ Mtech						E							View
64.	EE 313	Measurement and Instrumentation	2-1-0-3	TJ						E	E	E	E	E	E	E		View
65.	EE 518	Information Theory	3-0-0-3	samar						E	E		E	E				View
66.	ME 351	Management of Manufacturing and Logistic Systems	3-0-0-3	KS								E						View
67.	ME 356	Principles of Energy Conversion	3-1-0-4	DVP								E				E		View
68.	ME 509	Nano Manufacturing	3-0-0-3	BV	MS/PhD						E	E			E	E	E	View
69.	ME 601	Advanced Finite Element Method	3-0-0-3	RK	MS/PhD										E	E	E	View



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84.	EN 501	Energy Sources and Power Plants	3-0-0-3	PAK	MTech /MS/PhD						E	E		E	E	F	View
85.	EN 502	Emerging Energy Sources	3-0-0-3	Atul	MTech/ MS/PhD						E	E		E	E	F	View
86.	EN 503	Energy Storage Technologies	3-0-0-3	sudhir	MTech /MS/PhD							E			E	F	View
87.	EN 604	Energy: Environment Policy and Law	3-0-0-3	VD	MTech/ MS/PhD							E			E	F	View
88.	EN 505P	Energy Systems Laboratory	0-0-4-2	SP,VSC	Mtech											C	View
89.	EN 506P (TBD)	Design Practicum	3-0-0-3 (TBD)	Sudhir	MS/PhD/ MTech											C	N.A.
90.	EN 511	Structure-Property Characterization	3-0-0-3	BV	MTech /MS/PhD										E	C	View
91.	MA 465	Ordinary Differential Equations	2-1-0-3	SA							E	E	E	E	E		View
92.	MA 605	Statistical Data Analysis	2-1-0-3	Sarita	MS/PhD						E	E	E	E	E		View
93.	MA 512	Linear Algebra	3-1-0-4	NK	M.Sc (Maths(C)/MS/Phd						E	E	E	E	E		View



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103.	BY 510	Advanced Cell Biology	3-0-0-3	PM	M.Tech(Bio)													View
104.	BY 511	Cell Physiology in health and disease	3-0-0-3	AP	MS/M.tech/Ph.D.					E	E	E	E	E	E			View
105.	BY 512	Quantitative and computational Biology	3-0-0-3	TPS	MSc/MT ECH/MS/ PhD/Mtech (Bio)/(C)					E	E	E	E	E	E			View
106.	BY 513	Cellular Bioprocess Technology	3-0-0-3	SKM	MS/M.Sc /Mtech/ PhD					E	E	E	E	E	E			View
107.	BY 520P	Cell Biology and Physiology	0-0-2-1	AP/PM	M.Tech(Bio)													View
108.	BY 521P	Computational Biology and Cellular Bioprocess Technology Lab	0-0-2-1	TPS/SKM	Mtech (Bio)(C )													View
109.	PH 502	Photonics	3-0-0-3	PP	I- PhD/PhD (E)					E	E	E	E	E	E			View
110.	PH 506	Project: Simulation of Complex Liquids	3-0-0-3	PJ	I- PhD/PhD (E)					E	E	E	E	E	E			
111.	PH 511	Mathematical Physics	4-0-0-4	samar	I-PhD (Core)					E	E	E	E	E	E			View
112.	PH 512	Classical Mechanics	4-0-0-4	sudhir	I-PhD (Core)					E	E	E	E	E	E			View



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127.	CY 521	Mathematics for Chemists	3-0-0-3	AC	MSc - 1(C)													View
128.	DP 500P	Research Practicum	3-0-0-3	sudhir	MS/PhD/Mtech(C)												F	
129.	DP 501P	Design Practicum - 1	0-0-4-2	VKN	MSc - 1(C)													View
130.	CY 506P	Inorganic Chemistry Lab	4-0-0-4	AD	MSc - 2(C)													View
131.	CY 511P	Physical Chemistry Laboratory	0-0-8-4	CKN	MSc													View
132.	CY-522	Computational Chemistry	3-0-0-3	AC	MSc - 2(C)													View
133.	CY 508	Organometallic Chemistry	2-0-0-2	Rik														View
134.	DP 503P	Basic Mechanical and Electronics Workshop	0-0-4-2	PFS	MSc - 2(C)													View
135.	DP 504P	Mini Project	0-0-8-4	AD	MSc – 2(C)													View
136.	DP 512P	Industrial Training	0-0-3-1	VSC	MTech(C )													N.A.
137.	DP 513P	Dissertation	0-0-24-12	VSC	MTech(C )													N.A.
138.	CE 501	Remote Sensing	3-0-0-3	DPS	MS/PhD									E	E	E	E	View
139.	CE 601	Geo-Informatics	2-0-2-3	DPS	MS/PhD									E	E	E	E	View
140.	EN 611	Deformation Behavior of Energy Materials	3-0-0-3	VSC	MS/PhD/ MTech								E			E	C	View



## **Abbreviations**

AD – Abhimanew Dhir

AB – Arnav Bhavsar

AC – Aniruddha Chakraborty

Aditi – Aditi Halder

AG – Arpan Gupta

AJ - Amit Jaiswal

Ajay – Ajay Soni

AKS – Anil Kumar Sao

Aruna – Aruna Bommareddi

Arti – Arti Kashyap

AKM – Ashok K Mocherla

AN – Aditya Nigam

AP - Amit Prasad

Atul-Atul Dhar

Astrid – Astrid Khien

BDC – B. D. Chaudhary

BJ – Bhakti Joshi

BR – Bindu Radhamany

BS – B. Subramanian

BSR – Bharat Singh Rajpurohit

BV – B. Vishwanath

CKN – Chayan K Nandi

CSY – Chandra ShekharYadav

Devika - Devika Sethi

Dileep – Dileep A. D

Dittrich - Yvonne Dittrich

DPS - Dericks Praise Shukla

DS - Deepak Swami

DK – Deepak Khemani (IITM)

DVP - Dheeraj V. Patil

GS –GokulSomasekharan

**N.A. Not Approved**

Hitesh – Hitesh Shrimali

HV – HariVarma

JKR – Jaspreet Kaur Randhawa

KG – Kunal Ghosh

PAK - P. Anil Kishan

KM – Kaustav Mukherjee

KS – Kaustav Sarkar

MM – Muslim Malik

MR – Maben Rabi

MT – Manoj Thakur

MVD – Manu V Devadevan

NK – Nitu Kumari

PCP – Pradeep C Parameswaran

PFS – Prem Felix Siril

PJ – Prasanth Jose

PK – Pradeep Kumar (SBS)

PM - Prosenjit Mondal

PP – Pradyumna Pathak

PR – PadmanabhanRajan

Pradeep – Pradeep Kumar (SE)

PS - Puran Singh

PT -PramodTalgeri

Rajanish - Rajanish Giri

RD - Rajeshwari Dutt

RMR – Renu M Rameshan

RG - Rajesh Ghosh

RT – Ramna Thakur

Rik – Rik Rani Ghosh

RK – Rajeev Kumar

RO – Ramesh Oruganti

R Ray – Rajendra Ray

RS - Rajneesh Sharma

RV – Rahul Vaish

Sudhir – Sudhir Kumar Pandey

SP – Satvasheel Powar

SA – Syed Abbas

Samar – Samar Agnihotri

Sarita – Sarita Azad

SD – Subashish Dutta

SG – Subrata Ghosh

Shail – Shail Shankar

SDG - ShyamasreeDasgupta

SK – SriramKailasam

SKM - Shyam K Masakapalli

SKP – Suman Kalyan Pal

SKS – Satinder Kumar Sharma

SRC – Shubhajit Roy Chowdhury

ST – SatyajitThakor

Suman - Suman

Surya - Surya Prakash

TAG – Timothy A Gonsalves

Talha – Mohammad Talha

TPS - Tulika P Srivastava

Tripti - Tripti Singh

TJ – Tushar Jain

UKV - Uday Kala Venkata

VJ – Varsha Jain

VD – Varun Dutt

VKN- Venkata Krishnan

VSC – Vishal Singh Chauhan

**TBD: To be decided**