

1.3 Curriculum Enrichment

1.3.1. Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

Response:

R P S College of Engineering and Technology follows and implements the courses related to Professional Ethics, Human Values, Engineering Ethics and Environmental Studies as prescribed the affiliating university.

Engineering Ethics:

The course **Engineering Ethics** in Electronics and Communication Engineering is introduced in order to inculcate professional ethics and human values in budding technocrats. The objective of this course is to produce the professionals who can deal and address the societal issues by providing innovative solutions. These professions will disseminate their duties of being an engineer with a human touch for the welfare of mankind.

Business Ethics and Corporate Social Responsibility

The course **Business Ethics and Corporate Social Responsibility** is included in the curriculum of MBA to inculcate the ethical merits and the social responsibility among budding entrepreneurs.

Communication Skills and Personality Development

Another value added course named as Communication Skills and Personality Development is incorporated in the curriculum for overall development of the managers of tomorrow.

Human Rights and Values and, Consumer Protection

The courses Human Rights and Values and, Consumer Protection integrated in BBA programme help out the learners to become aware towards basic human rights and the rights of consumers. It is vital to have knowledge of the same – as a businessman and a consumer as well.



R. S. Yadav
Principal
R.P.S. College of Engg. & Tech
Balana Mohindergarh (HR.)

Disaster Management

The Disaster Management courses added in the curriculum of BBA and B.Tech. aid the students to understand the contemporary and upcoming issues and find out the solutions related to natural and man-made disasters.

Constitution of India and, Essence of Indian Traditional Knowledge

The courses – Constitution of India and, Essence of Indian Traditional Knowledge are added in the Engineering curriculum in order to impart the glory of Indian Traditional Value and Legal system among the technocrats of tomorrow.

Environment and Sustainability:

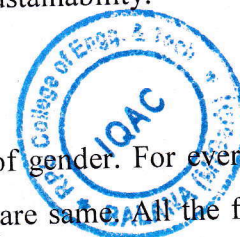
The course **Environmental Science** included in the syllabus of Engineering courses and **Environmental Studies** included in the curriculum of Management courses provide various aspects of environmental issues and sustainability. The need based curriculum helps the students to learn and execute the ideas for saving the environment. The management students shall be able to manage the environmental issues at their own level. The Engineering students shall try to find out innovative ideas to save the environment and to maintain sustainability.

Gender Sensitization:

The institute promotes the equality of opportunities irrespective of gender. For every role and responsibility among students and faculty, both male and female are same. All the facilities of the institute are open and available for both male and female.

A women empowerment cell is established in the college to address the sensitive issues, if any, among students and the staff. Female students coordinate the activities during various programs. The events like Mothers' Day, Women's Day, etc. are celebrated in the institute.

The department of Computer Science and Engineering, that is the biggest department of the college, as far as the number of the students and faculty members are concerned, is headed by a female only. Almost all the departments have female faculty members including Civil Engineering.



Meghadew
Principal
R.P.S. College of Engg. & Tech
Balana Mohindergarh (HR.)

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Business Ethics and Corporate Social Responsibility

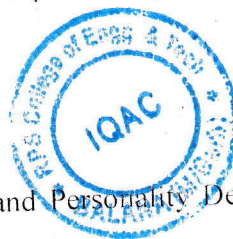
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M. Jayadev
Principal
R.P.S. College of Engg. & Tech
Balana Mohindergarh (HR.)

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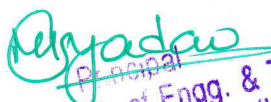
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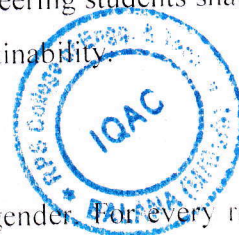
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Principal
R.P.S. College of Engg. & Tech
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Scheme of Studies and Examination
B.TECH (Electronics & Communication Engineering) – 6th Semester
w.e.f. 2020-21

Sr. No.	Category	Course Code	Course Title	Hours per week			Total Contact Hrs. per week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
				L	T	P			Internal Assessment	External Examination	Practical	Total	
1	Professional Core Course	PCC-ECE302	Control Systems	3	1	0	4	4	25	75		100	3
2	Professional Core Course	PCC-ECE304	Computer Network	3	1	0	4	4	25	75		100	3
3	Humanities/ Basic Science	HUM-ECE-306	Engineering Ethics	3	0	0	3	3	25	75		100	3
4	Professional Core Course	PCC-ECE308	CMOS Design	3	1	0	4	4	25	75		100	3
5	Program Elective Course	Refer to Annexure I	Program Elective –II	3	1	0	4	4	25	75		100	3
6	Open Elective Course	Refer to Annexure II	Open Elective-II	3	0	0	3	3	25	75		100	3
7	Professional Core Course	LC-ECE322	Computer Network Lab	0	0	4	4	2	25		25	50	3
8	Professional Core Course	LC-ECE324	Control System Lab	0	0	3	3	1.5	25		25	50	3
9	Professional Core Course	LC-ECE326	Mini Project/Electronic Design workshop	0	0	4	4	2	25		25	50	3
TOTAL CREDIT								27.5				750	

Note:

Each student has to undergo practical training of 6 weeks during summer vacation after 6th semester and its evaluation shall be carried out in 7th Semester.


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HUM-ECE306

ENGINEERING ETHICS

L T P
3 - -

Theory: 75 Marks
Class work : 25 Marks
Total: 100 Marks
Duration of Exam: 3 Hours

Note: Examiner will set nine questions in total. Question one will be compulsory. Question one will have 6 parts of 2.5 marks each from all units and remaining eight questions of 15 marks each to be set by taking two questions from each unit. The students have to attempt five questions in total, first being compulsory and selecting one from each unit.

UNIT I

Ethics and Professionalism: Ethics and Excellence in Engineering, Micro and Macro Issues, Dimensions of Engineering, Potential Moral Problems, What Is Engineering Ethics, Why Study Engineering Ethics? Responsible Professionals, Professions, and Corporations: Saving Citicorp Tower, Meanings of Responsibility, Engineering as a Profession, Ethical Corporations and Senses of Corporate Responsibility. Moral Reasoning and Codes of Ethics, Moral Choices and Ethical Dilemmas, Rights Ethics, Duty Ethics, Utilitarianism, Virtue Ethics, Self-Realization Ethics, Ethical Egoism, Which Ethical Theory Is Best?

UNIT II

Engineering as Social Experimentation: Engineering as Experimentation, Engineers as Responsible Experimenter, Commitment to Safety: The Concept of Safety, Risks, Acceptability of Risk, Assessing and Reducing Risk: Uncertainties in Design, Risk-Benefit Analyses, Personal Risk versus Public Risk, Examples of Improved Safety, Three Mile Island, Safe Exits.

UNIT III


Truth and Truthfulness: Whistle-Blowing, Moral Guidelines, Protecting Whistle-Blowers, Common Sense Procedures, Beyond Whistle-Blowing, Honesty and Research Integrity: Truthfulness, Trustworthiness, Academic Integrity: Students, Research Integrity, Bias and Self-Deception, Protecting Research Subjects, Giving and Claiming Credit.
Computer Ethics: The Internet and Free Speech, Power Relationships, Property, Privacy, Additional Issues.

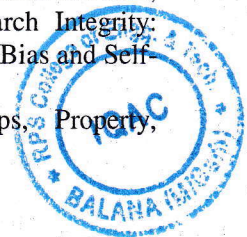
UNIT IV

Environmental Ethics: Engineering, Ecology, and Economics, Environmental Moral Frameworks, Human-Centered Ethics, Sentient-Centered Ethics, Biocentric Ethics, Ecocentric Ethics, Religious Perspectives.
Global Justice: Multinational Corporations, Technology Transfer and Appropriate Technology, Bhopal, "When in Rome", International Rights, Promoting Morally Just Measures, Weapons Development and Peace, Involvement in Weapons Work, Defense Industry Problems, Peace Engineering.

References:

1. Mike W. Martin and Roland Schinzinger, "Introduction to Engineering Ethics", Second Edition, McGraw Hill, New Delhi, latest edition


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RAO PAHLAD SINGH COLLEGE OF ENGG. & TECH.

Approved by AICTE / Govt. of India & Affiliated to I.G.U., Meerpur

Balana, Mohinder Garh, Haryana - 123029

Telephone: 01285-241431 Fax: 241434

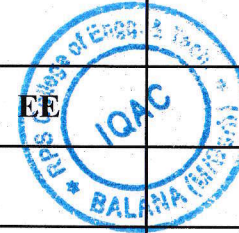
E-mail: rpsbalana@gmail.com, Website: www.rpsinstitutions.org

Time Table B.Tech. 6th Semester (ECE)

Room No 307

w.e.f. 01/02/2023

Time	9:00-10:00	10:00-11:00	11:00-12:00	12:00 12:30	12:30-1:30	1:30-2:30	2:30-3:30
	I	II	III		IV	V	VI
Monday				B R E A K			
Tuesday			EE				
Wednesday	EE						
Thursday						EE	
Friday			EE				
Saturday							



EE: ENGINEERING ETHICS: DR. RITU MOHAN

Dean Academics

HOD

Principal
R.P.S. College of Engg. & Tech
Balana Mohinder Garh (HR.)



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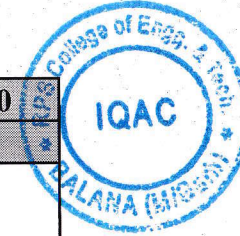
E-mail: rpsbalana@gmail.com, Website: www.rpsinstitutions.org

Time Table B.Tech. 4th Semester (ECE)

w.e.f. 01/02/2023

Room No 308


Time	9:00-10:00	10:00-11:00	11:00-12:00	12:00 12:30	12:30-1:30	1:30-2:30	2:30-3:30
	I	II	III		IV	V	VI
Monday				B R E A K			
Tuesday							
Wednesday						OB	
Thursday						OB	
Friday						OB	
Saturday							



OB: ORGANISATIONAL BEHAVIOUR: MRS. KOMAL


Dean Academics



HOD 30/01/2023


Principal
RPS College of Engg. & Tech
Balana Mohindergarh (HR.)

Indira Gandhi University, Meerpur, Rewari
SCHEME OF STUDIES AND EXAMINATION
Bachelor of Technology (Civil Engineering) Scheme effective from 2019-20
SEMESTER 3rd

Sr. No	Course Code	Course Title	Hours per week	Contact hours per week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
			L-T-P			Class work	Theory	Practical	Total	
1.	HSMC-201	Economics For Engineers	2-0-0	2	2	25	75	-	100	3
2.	PCC-201	Introduction to Civil Engineering	2-0-0	2	2	25	75	-	100	3
3.	BSC-Math-205	Mathematics III	2-1-0	3	3	25	75	-	100	3
4.	PCC-203	Engineering Mechanics	3-1-0	4	4	25	75	-	100	3
5.	*MC-106	Environmental Science	3-0-1	4	0	25	75	-	--	3
6.	PCC-CE-205	Fluid Mechanics	2-1-0	3	3	25	75	-	100	3
7.	PCC-CE-207	Surveying	2-1-0	3	3	25	75	-	100	3
8.	LC-CE-209	Building Drawing lab	0-0-2	2	1	25	-	25	50	3
9.	LC-CE-211	Engineering Mechanics Lab.	0-0-2	2	1	25	-	25	50	3
10.	LC-CE-213	Fluid Mechanics Lab.	0-0-2	2	1	25	-	25	50	3
11.	LC-CE-215	Surveying Lab.	0-0-2	2	1	25	-	25	50	3
12.		Seminar	-	-	1	-	-	-	25	
TOTAL					22					

*MC-106 is a mandatory non –credit course in which the students will be required passing marks in theory.


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ENVIRONMENTAL SCIENCE

MC-106

L	T	P	Credits
3	0	1	-

Class Work : 25 Marks

Theory : 75 Marks

Duration of Exam: 3 Hrs.

Theory 75 Marks

Field Work 25 Marks (Practical/Field visit)

Unit-1 The Multidisciplinary nature of environment studies. Definition, scope and importance.

Unit-2 Natural Resources :

Renewable and non-renewable resources : Natural resources and associated problems.

- Forest resources : Use and over-exploitation : deforestation, case studies. Timber extraction, mining dams and their effects on forests and tribal people.
 - Water resources : Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems.
 - Mineral resources : Use and exploitation, environmental effects of extracting and using mineral resources, case studies.
 - Food resources : World food problems, changes, caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, Water logging, salinity, case studies.
 - Energy resources : Growing energy needs; renewable and non-renewable energy sources, use of alternate energy sources, case studies.
 - Land resources : Land as a resource, land degradation, man induced landslides, soil erosion and desertification.
- * Role of an individual in conservation of natural resources.
 - * Equitable use of resources for sustainable lifestyles.

Unit-3 Ecosystems :

- * Producers, consumers and decomposers.
- * Energy flow in the ecosystem.
- * Ecological succession.
- * Food chains, food webs and ecological pyramids.
- * Introduction, types, characteristic features, structure and function of the following eco-system :
 - Forest ecosystem.
 - Grassland ecosystem.
 - Desert ecosystem.
 - Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries) (6 lectures)

Unit-4 Biodiversity and its conservation



Rajgopal
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- * Introduction - Definition : Genetic, Species and ecosystem diversity.
- * Value of biodiversity: consumptive use, productive use, social, ethical, aesthetic and option values.
- * Biodiversity at global, National and local levels.
- * India as a mega-diversity nation.
- * Hot-spots of biodiversity.
- * Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts.
- * Endangered and endemic species of India.
- * Conservation of biodiversity : In-situ and ex-situ conservation of biodiversity.

Unit-5 Environmental pollution :

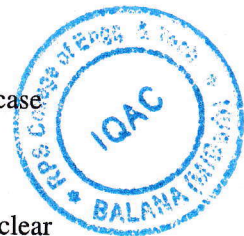
Definition, causes, effects and control measures of :

- a) Air pollution.
- b) Water pollution
- c) Soil pollution
- d) Marine pollution
- e) Noise pollution
- f) Thermal pollution
- g) Nuclear hazards
- * Solids waste management: causes, effects and control measures of urban and industrial wastes.
- * Role of an individual in prevention of pollution.
- * Pollution case studies.
- * Disaster management : floods, earthquake, cyclone and landslides.

(8 lectures)

Unit-6 Social issues and the Environment:

- * From unsustainable to sustainable development.
- * Urban problems related to energy.
- * Water conservation, rain water harvesting, watershed management.
- * Resettlement and rehabilitation of people : its problems and concerns case studies.
- * Environmental ethics : Issues and possible solutions.
- * Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case studies.
- * Wasteland reclamation.
- * Consumerism and waste products.
- * Environment Protection Act.
- * Air (Prevention and Control of pollution) Act.



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- * Water (Prevention and Control of pollution) Act.
- * Wildlife Protection Act.
- * Forest Conservation Act.
- * Issues involved in enforcement of environmental legislation.
- * Public awareness. (7 lectures)

Unit-7 Human population and the Environment.

Population growth, variation among nations.

Population explosion- Family Welfare Programme.

Environment and human health.

Human Rights.

Value Education.

HIV/AIDS.

Woman and Child Welfare

Role of Information Technology in Environment and human health.

Case Studies. (6 lectures)

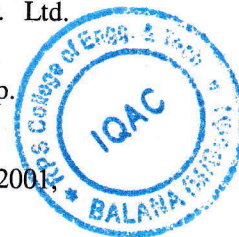
Unit-8 Field Work :

- * Visit to a local area to document environmental assets - river/forest/grassland/hill/mountain.
- * Visit to a local polluted site-urban/Rural/ Industrial/ Agricultural.
- * Study of common plants, insects, birds.

Study of simple ecosystems- pond, river, hill slopes, etc. (Field work equal to 10 lecture hours)

References

1. Agarwal, K.C. 2001 Environmental Biology, Nidi Pub. Ltd. Bikaner.
2. Bharucha, Frach, The Biodiversity of India, MAPin Publishing Pvt. Ltd. Ahmedabad-380013, India,
3. Brunner R.C. 1989, Hazardous Waste Incineration, Mc. Graw Hill Inc. 480p.
4. Clark R.S., Marine pollution, Slanderson Press Oxford (TB).
5. Cunningham, W.P. Cooper, T.H. Gorhani, E & Hepworth, M.T. 2001, Environmental Encyclopedia, Jaico Pub. House, Mumbai 1196 p.
6. De A.K., Environmental Chemistry, WileyEastern Ltd.
7. Down to Earth, Centre for Science and Environment (R).
8. Gleick, H.P., 1993. Water in crisis, Pacific Institute for Studies in Dev. Environment & Security Stockholm Env. Institute, Oxford Univ. Press, 473p.
9. Hawkins R.E. Encyclopedia of Indian Natural History, Bombay Natural History Society, Bombay(R).
10. Heywood, V.H. & Watson, R.T. 1995. Global Biodiversity Assessment, Cambridge Uni. Press 1140p.



M. Yadav
Principal
R.P.S. College of Engg. & Tech
Balana Mohindergarh (HR.)



B.Tech Civil 3rd Semester

Time	9:00-10:00	10:00-11:00	11:00-12:00		12:30-1:30	1:30-2:30	2:30-3:30	
Lect.	I	II	III		IV	V	VI	
Monday	FM	ICE	SUR	B R E A K	M-III	SUR LAB		
Tuesday	ECO	FM	SUR		EVS	BD LAB		
Wednesday	EM	ECO	EVS		M-III	FM LAB		
Thursday	ECO	ICE	FM		M-III	LIB	EM	
Friday	EM	FM	EVS		EM LAB			ICE
Saturday	SUR	ICE	M-III		EVS	SPORTS	EM	

FM MR. NITESH
 SUR MS. MONIKA
 M-III MS.AAKANSHA TYAGI

EVS MR. DEEPAK
 ICE MR PRASHANTA KUMAR
 ECO MS.KOMAL ARORA

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 24/09/22
 HOD(CE)

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 DEAN ACADEMICS



DIPLOMA Civil 5TH Semester

ROOM NO: 409

Time	9:00-10:00	10:00-11:00	11:00-12:00		12:30-1:30	1:30-2:30	2:30-3:30
Lect.	I	II	III		IV	V	VI
Monday	SS	HE	RBT	B R E A K	RCC	R&M	PS
Tuesday	HE	RBT	R&M		RCC	CADD LAB	
Wednesday	PS	LIB	RCC		RBT	HE LAB	
Thursday	RCC	RBT	PT		SS	PS LAB	
Friday	RBT	SPORTS	R&M		PS	RCC DRG. LAB	
Saturday	PS	R&M	RCC		HE	CADD LAB	

PS MR. NITESH
 RCC MS. MONIKA
 CADD MS. MONIKA

RBT MR. SANDEEP YADAV
 SS MR S.N. SHARMA
 HE MR PARVEEN YADAV

[Signature]
 20/09/22
 HOD(CE)

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 DEAN ACADEMICS

 Principal
 RPS College of Engg. & Tech
 Balana Mohindergarh (HR.)

Scheme of Studies and Examination
B.Tech. (Civil Engineering) – 7th Semester
w.e.f. 2021-22

Sr. No.	Category	Course Code	Course Title	Hours per week			Total Contact Hrs. per week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
				L	T	P			Internal Assessment	Theory	Practical	Total	
1	Professional Core course	PCC-CE-401	Construction planning and management	3	0	0	3	3	25	75	-	100	3
2	Professional Core course	PCC-CE-403	Advanced steel structure	4	0	0	4	4	25	75	-	100	3
3	Professional Core course	PCC-CE-405	Estimation, Costing and Valuation	3	0	0	3	3	25	75	-	100	3
4	Professional Elective course	*	Elective III (Refer List-I)	3	0	0	3	3	25	75	-	100	3
5	Professional Elective course	**	Elective IV (Refer List-II)	3	0	0	3	3	25	75	-	100	3
6	Professional Elective course	***	Elective V (Refer List-III)	3	0	0	3	3	25	75	-	100	3
7	Open elective course	****	Open elective-I (Refer List-IV)	3	0	0	3	3	25	75	-	100	3
8	Practical Training	PT-CE-425	Industrial training viva					-				Refer Note 1*	-
9	Mandatory courses (non-credit)	MC-317*	Constitution of India	2	0	0	2	-	-				3
TOTAL								22	175	525	00	700	

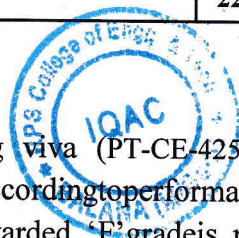
Note:

- The valuation of Industrial training viva (PT-CE-425) will be based on seminar, viva-voce, reports submitted by the students. According to performance, the students are awarded grades A, B, C, F. A student who is awarded 'F' grade is required to repeat Industrial training.

Excellent: A; Good: B; Satisfactory: C; Not Satisfactory: F

- *MC-317 is a mandatory non-credit course in which the students will be awarded grades A, B, C, F as per their performance. A: Excellent, B: Good, C: Satisfactory, F: Not Satisfactory. A student who is awarded 'F' grade is required to repeat course.

- An elective paper will be offered to the students when at least 15 students will choose that subject and the expertise of the same is available in the Department/Institute.



Miyada
Principal
PCC College of Engg. & Tech.
Mohindergarh (HR.)

4. *Choose any one subject from LIST I.
5. **Choose any one subject from LIST II.
6. ***Choose any one subject from LIST III.
7. ****Choose any one subject from LIST IV.

ELECTIVE- III (PEC) –LIST I

S.no	Name of course	Code	L-T-P	Credits
1.	Disaster Management and Mitigation	PEC-CEEL - 407	3-0-0	3
2.	Environmental Management	PEC-CEEL - 409	3-0-0	3
3.	Hydro Power Engineering	PEC-CEEL - 411	3-0-0	3

ELECTIVE- IV(PEC) –LIST II

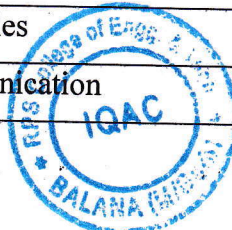
S.no	Name of course	Code	L-T-P	Credits
1.	Design of Hydraulic Structures	PEC-CEEL - 413	3-0-0	3
2.	Watershed Management	PEC-CEEL -415	3-0-0	3
3.	River Engineering	PEC-CEEL -417	3-0-0	3

ELECTIVE- V(PEC) –LIST III

S.no	Name of course	Code	L-T-P	Credits
1.	Railway and Airport Engineering	PEC-CEEL -419	3-0-0	3
2.	Traffic Engineering	PEC-CEEL -421	3-0-0	3
3.	Bridge Engineering	PEC-CEEL -423	3-0-0	3

OPEN ELECTIVE COURSES -I (OEC) – LIST IV

S.no	Code	Name of course	L-T-P	Credits
1	OEC-ME-410	Quality Engineering	3-0-0	3
2	OEC -EE-412	Electrical Power Generation	3-0-0	3
3.	OEC-CE-416	Solid and Hazardous waste management	3-0-0	3
4	OEC-ECE-451	Electronic Principles	3-0-0	3
5	OEC-CSE-430	Computer Communication	3-0-0	3



Ujjwal
Principal

R.P.S College of Engg. & Tech
Balana Mohindergarh (HR.)

Course code	PEC-CEEL- 407				
Category	Professional Elective course				
Course title	Disaster Management and Mitigation				
Scheme and Credits	L	T	P	Credits	Semester 7 th
	3	0	0	3	
Class work	25 Marks				
Exam	75 Marks				
Total	100 Marks				
Duration of Exam	3 Hours				

Course Objectives:

- To provide basic conceptual understanding of disasters and its relationships with development.
- Provide an understanding of the social nature of natural hazards and disasters
- Increase awareness of hazards and disasters around the world and the unequal social consequences stemming from disaster events.

Note: Examiner will set nine questions in total. Question one will be compulsory. Question one will have 6 parts of 2.5 marks each from all units and remaining eight questions of 15 marks each to be set by taking two questions from each unit. The students have to attempt five questions in total, first being compulsory and selecting one from each unit.

Unit-I

Introduction: Terminology, Global and Indian scenario, role of engineer, importance of study in human life, long term effects of disaster. Geological Mass Movement and land disasters, Atmospheric disasters, Disaster Mitigation

Unit-II

Nature of natural disaster, Flood, Flash flood, drought, cloud burst, Earthquake, Landslides, Avalanches, Volcanic eruptions, Mudflow, Cyclone, Storm, Storm Surge, climate change, global warming, sea level rise, ozone depletion, Man-made Disasters: Chemical, Industrial, Nuclear and Fire Hazards. Role of growing population and subsequent industrialization, urbanization and changing lifestyle of human beings in frequent occurrences of manmade disasters.

Unit -III

Damage profile analysis- Uttarkashi/Bhuj/Latur earthquakes, Kerala floods, cyclone Fani and Amphan, Bihar floods, Covid 19, Forest Related disasters, Mining disasters, Atmospheric disasters.

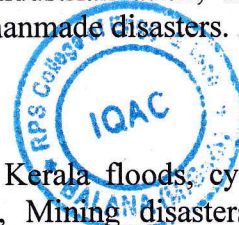
Unit IV

Importance of public awareness, Preparation and execution of emergency management programme. Scope and responsibilities of National Institute of Disaster Management (NIDM) and National disaster management authority (NDMA) in India. Use of Internet and software for effective disaster management. Applications of GIS, Remote sensing and GPS in this regard.

Course Outcomes:

After completing this course, students should be able:

- To know natural as well as manmade disaster and their extent and possible effects on the economy.



W. Yadav
Principal

R.P.S. College of Engg. & Tech
Balana Mohindergarh (HR.)

Course code	MC-317				
Category	Mandatory courses (non-credit)				
Course title	Constitution of India				
Scheme and Credits	L	T	P	Credits	Semester 7 th
	2	0	0	0	
Class work	-				
Exam	-				
Total	-				
Duration of Exam	-				

Course Objectives:

Students will be able to:

- Understand the premises informing the twin themes of liberty and freedom from a civil rights perspective.
- To address the growth of Indian opinion regarding modern Indian intellectuals' constitutional role and entitlement to civil and economic rights as well as the emergence of nationhood in the early years of Indian nationalism.
- To address the role of socialism in India after the commencement of the Bolshevik Revolution in 1917 and its impact on the initial drafting of the Indian Constitution.

***Note: 1.** MC-317 is a mandatory non-credit course in which the students will be awarded grades A, B, C, F as per their performance. A: Excellent, B: Good, C: Satisfactory, F: Not Satisfactory. A student who is awarded 'F' grade is required to repeat course.

Module – I

Philosophy of Indian Constitution: Salient features of Indian Constitution, Preamble, and Nature of Indian Constitution, Procedure for amendment of the Constitution.

Module – II

Federal structure and distribution of legislative and financial powers between the Union and the States.

Module – III

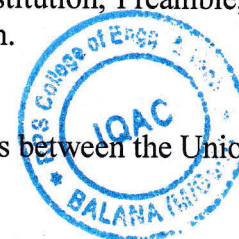
Organs of Governance: President – Qualification and Powers of the President, Governor Qualification and Powers of Governor, Parliament: Composition, Qualifications and Disqualifications, Judiciary: Appointment, Tenure and Removal of Judges.

Module – IV

Fundamental Rights: Origin and development of Fundamental rights, Need for fundamental rights, Introduction to Right to equality, Right to freedom, Right against exploitation, Right to freedom of religion, Cultural and Education rights and Fundamental duties.

Course Outcomes: Students will be able to:

- Discuss the growth of the demand for civil rights in India for the bulk of Indians before the arrival of Gandhi in Indian politics.
- Discuss the intellectual origins of the framework of argument that informed the conceptualization of social reforms leading to revolution in India.
- Discuss the circumstances surrounding the foundation of the Congress Socialist Party [CSP] under the leadership of Jawaharlal Nehru and the eventual failure of the proposal of direct election through adult suffrage in the Indian Constitution.



B.Tech Civil 7th Semester

ROOM NO : 405

Time	9:00-10:00	10:00-11:00	11:00-12:00	B R E A K	12:30-1:30	1:30-2:30	2:30-3:30
Lect.	I	II	III		IV	V	VI
Monday	DHS	CPM	DMM	B R E A K	ASS	SSC JE	R&A
Tuesday	DMM	COI	LIB.		DHS	E&C	ASS
Wednesday	E&C	DHS	R&A		PT	EP	PD
Thursday	ASS	EP	CPM		COI	R&A	E&C
Friday	E&C	R&A	EP		LIB	DMM	CPM
Saturday	ASS	DHS	CPM		SSC JE (T)	SSC JE (T)	SSC(G.S)

DHS MR. PARVEEN
 DMM MR PRASHANTA KUMAR
 ASS MR SANDEEP
 CPM MR. SAJAD

E&C MS. MONIKA
 R&A MR SANDEEP
 EP MR PANKAJ SONI
 PD S.N. SHARMA


 HOD(CE)


DEAN ACADEMICS

ROOM NO: 404

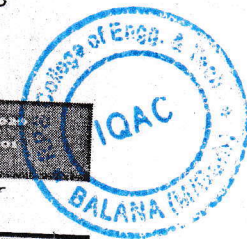
Time	9:00-10:00	10:00-11:00	11:00-12:00	B R E A K	12:30-1:30	1:30-2:30	2:30-3:30
Lect.	I	II	III		IV	V	VI
Monday	WST	GEO	HE	B R E A K	WRE	HE LAB	
Tuesday	WST	WRE	DSS		GEO	DSS DRG. LAB	
Wednesday	HE	DSS	WRE		WST	PT	SOIL
Thursday	SOIL	SPORTS	GEO		DSS	SOIL LAB	
Friday	SOIL	LIB	DSS		HE	GEO LAB	
Saturday	WRE	GEO	HE		WST	DSS	SOIL


SOIL MR PRASHANTA KUMAR
 GEO MR SANDEEP
 HE MR PARVEEN
 WRE MR. SAJAD

WST MS. MONIKA
 DSS MR NITESH
 PT MR PRASHANTA KUMAR


 HOD(CE)

DEAN ACADEMICS




 Principal
 R.P.S. College of Engg. & Tech
 Balana Mohinder Garh (HR.)

Indira Gandhi University, Meerpur, Rewari

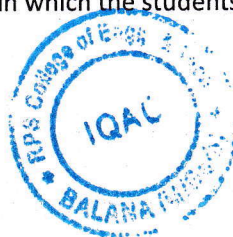
SCHEME OF STUDIES & EXAMINATIONS

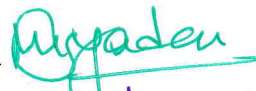
B.TECH (Electronics and Communication Engineering)

SEMESTER –3rd w.e.f. 2019-20

S. No.	Course No.	Course Title	Teaching Schedule			Marks of Class work	Examination Marks		Total	Credit	Duration of Exam	Contact Hrs./wk
			L	T	P		Theory	Practical				
1	PCC-ECE201	Electronic Devices	3	0	-	25	75	-	100	3	3	3
2	LC-ECE203	Electronic Devices lab	0	0	2	25	-	25	50	1	3	2
3	PCC-ECE205	Digital System Design	3	1	-	25	75	-	100	3	3	4
4	LC-ECE207	Digital System Design lab	0	0	2	25	-	25	50	1	3	2
5	PCC-ECE209	Signals and Systems	3	0	-	25	75	-	100	3	3	3
6	PCC-ECE211	Network Theory	3	0	-	25	75	-	100	3	3	3
7	HSMC-01	Economics for Engineers (Common with CSE)	3	0	0	25	75	-	100	3	3	3
8	*MC-106	Environmental Science	3	0	1	25	75	-	-	-	3	4
9	PCC-CSE-221	Data Structures	3	0	0	25	75	-	100	3	3	3
10		Seminar							25	1		
Total									725	21		27

*MC-106 is a mandatory non –credit course in which the students will be required passing marks in theory.




 Principal
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 Balana Mohindergarh (HR.)

**ENVIRONMENTAL SCIENCE
MC-106**

L	T	P	Credits
3	0	1	-

Class Work : 25 Marks
Theory : 75 Marks
Duration of Exam: 3 Hrs.

Theory 75 Marks Field Work 25 Marks (Practical/Field visit)

Unit-1 The Multidisciplinary nature of environment studies. Definition, scope and importance.

Unit-2 Natural Resources :

Renewable and non-renewable resources : Natural resources and associated problems.

- a) Forest resources : Use and over-exploitation : deforestation, case studies. Timber extraction, mining dams and their effects on forests and tribal people.
 - b) Water resources : Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems.
 - c) Mineral resources : Use and exploitation, environmental effects of extracting and using mineral resources, case studies.
 - d) Food resources : World food problems, changes, caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, Water logging, salinity, case studies.
 - e) Energy resources : Growing energy needs; renewable and non-renewable energy sources, use of alternate energy sources, case studies.
 - f) Land resources : Land as a resource, land degradation, man induced landslides, soil erosion and desertification.
- * Role of an individual in conservation of natural resources.
* Equitable use of resources for sustainable lifestyles.

Unit-3 Ecosystems :

- * Producers, consumers and decomposers.
 - * Energy flow in the ecosystem.
 - * Ecological succession.
 - * Food chains, food webs and ecological pyramids.
 - * Introduction, types, characteristic features, structure and function of the following eco-system :
 - a. Forest ecosystem.
 - b. Grassland ecosystem.
 - c. Desert ecosystem.
 - d. Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)
- (6 lectures)

Unit-4 Biodiversity and its conservation

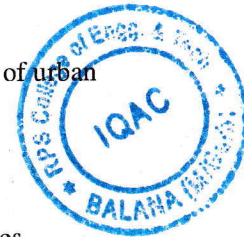


- * Introduction - Definition : Genetic, Species and ecosystem diversity.
- * Value of biodiversity: consumptive use, productive use, social, ethical, aesthetic and option values.
- * Biodiversity at global, National and local levels.
- * India as a mega-diversity nation.
- * Hot-spots of biodiversity.
- * Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts.
- * Endangered and endemic species of India.
- * Conservation of biodiversity : In-situ and ex-situ conservation of biodiversity.

Unit-5 Environmental pollution :

Definition, causes, effects and control measures of :

- a) Air pollution.
- b) Water pollution
- c) Soil pollution
- d) Marine pollution
- e) Noise pollution
- f) Thermal pollution
- g) Nuclear hazards
- * Solids waste management: causes, effects and control measures of urban and industrial wastes.
- * Role of an individual in prevention of pollution.
- * Pollution case studies.
- * Disaster management : floods, earthquake, cyclone and landslides.



(8 lectures)

Unit-6 Social issues and the Environment:

- * From unsustainable to sustainable development.
- * Urban problems related to energy.
- * Water conservation, rain water harvesting, watershed management.
- * Resettlement and rehabilitation of people : its problems and concerns case studies.
- * Environmental ethics : Issues and possible solutions.
- * Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case studies.
- * Wasteland reclamation.
- * Consumerism and waste products.
- * Environment Protection Act.
- * Air (Prevention and Control of pollution) Act.
- * Water (Prevention and Control of pollution) Act.

- * Wildlife Protection Act.
- * Forest Conservation Act.
- * Issues involved in enforcement of environmental legislation.
- * Public awareness. (7 lectures)

Unit-7 Human population and the Environment.

Population growth, variation among nations.

Population explosion- Family Welfare Programme.

Environment and human health.

Human Rights.

Value Education.

HIV/AIDS.

Woman and Child Welfare

Role of Information Technology in Environment and human health.

Case Studies. (6 lectures)

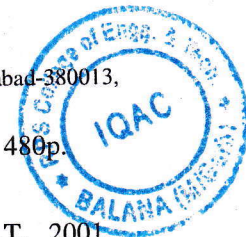
Unit-8 Field Work :

- * Visit to a local area to document environmental assets - river/forest/grassland/hill/mountain.
- * Visit to a local polluted site-urban/Rural/ Industrial/ Agricultural.
- * Study of common plants, insects, birds.

Study of simple ecosystems- pond, river, hill slopes, etc. (Field work equal to 10 lecture hours)

References

1. Agarwal, K.C. 2001 Environmental Biology, Nidi Pub. Ltd. Bikaner.
2. Bharucha, Frach, The Biodiversity of India, MApiin Publishing Pvt. Ltd. Ahmedabad-380013, India,
3. Brunner R.C. 1989, Hazardous Waste Incineration, Mc. Graw Hill Inc. 480p.
4. Clark R.S., Marine pollution, Slanderson Press Oxford (TB).
5. Cunningham, W.P. Cooper, T.H. Gorhani, E & Hepworth, M.T. 2001, Environmental Encyclopedia, Jaico Pub. House, Mumbai 1196 p.
6. De A.K., Environmental Chemistry, WileyEastern Ltd.
7. Down to Earth, Centre for Science and Environment (R).
8. Gleick, H.P., 1993. Water in crisis, Pacific Institute for Studies in Dev. Environment & Security Stockholm Env. Institute, Oxford Univ. Press, 473p.
9. Hawkins R.E. Encyclopedia of Indian Natural History, Bombay Natural History Society, Bombay(R).
10. Heywood, V.H. & Watson, R.T. 1995. Global Biodiversity Assessment, Cambridge Uni. Press 1140p.





RAO PAHLAD SINGH COLLEGE OF ENGG. & TECH.

Approved by AICTE / Govt. of India & Affiliated to I.G.U., Meerpur

Balana, Mohindergarh, Haryana - 123029

Telephone: 01285-241431 Fax: 241434

E-mail: rpsbalana@gmail.com. Website: www.rpsinstitutions.org

Time Table of EVS B.Tech. 3RD Semester (ECE)

Room No 308

w.e.f. 12/09/2022

Time	9:00-10:00	10:00-11:00	11:00-12:00	12:00 12:30	12:30-1:30	1:30-2:30	2:30-3:30	
	I	II	III		IV	V	VI	
Monday	EVS			B R E A K				
Tuesday								
Wednesday								
Thursday							EVS	
Friday						EVS-T		EVS
Saturday						EVS		

FACULTY NAME MR.JITENDER



Dean Academics

HOD

Principal

R.P.S. College of Engg. & Tech
Balana Mohindergarh (HR.)

Indira Gandhi University, Meerpur, Rewari

B.Tech. (Electrical Engineering)
IIIrd semester w.e.f 2019-20

S. No.	Course Code	Course Title	Teaching Schedule			Marks of Class Work	Examination Marks		Total Marks	Credits	Duration of Examination (in hours)
			L	T	P		Theory	Practical			
1.	PCC-EE-201	Electric Circuit Analysis	3	1	0	25	75	0	100	4	3
2.	LC-EE-203	Electric Circuit Analysis Laboratory	0	0	2	25	0	25	50	1	3
3.	PCC-EE-205	Analog Electronics	3	0	0	25	75	0	100	3	3
4.	LC-EE-207	Analog Electronics Laboratory	0	0	2	25	0	25	50	1	3
5.	PCC-EE-209	Electrical Machines-I	3	1	0	25	75	0	100	4	3
6.	LC-EE-211	Electrical Machines-I Laboratory	0	0	2	25	0	25	50	1	3
7.	PCC-EE-213	Electromagnetic Fields	3	1	0	25	75	0	100	4	3
8.	ESC-ME-209	Engineering Mechanics (Common with ME)	3	1	0	25	75	0	100	4	3
9.	*MC-106	Environmental Science	3	0	1	25	75	0	-	0	3
10		Seminar	-	-	-	-	-	-	25	1	-
Total									675	23	

*MC-106 is a mandatory non –credit course in which the students will be required passing marks in theory.



Ajayadav
Principal
R.P.S. College of Engg. & Tech
Balana Mohindergarh (HR.)



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E-mail: rpsbalana@gmail.com. Website: www.rpsinstitutions.org

Time Table of EVS B.Tech. 3rd Semester (EE)

Room No BE LAB

w.e.f. 12/09/2022

Time	9:00-10:00	10:00-11:00	11:00-12:00	12:00 12:30	12:30-1:30	1:30-2:30	2:30-3:30	
	I	II	III		IV	V	VI	
Monday	EVS			B R E A K				
Tuesday								
Wednesday								
Thursday							EVS	
Friday						EVS		EVS
Saturday						EVST		

FACULTY NAME MR. JITENDER



Dean Academics

HOD

Principal
R.P.S. College of Engg. & Tech
Balana, Mohindergarh (HR.)


Indira Gandhi University, Meerpur, Rewari

Scheme of Studies and Examination B.TECH (Mechanical Engineering) – 7th Semester

w.e.f. 2021-22

Sr. No.	Category	Course Code	Course Title	Hours per week			Total Contact hrs/week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
				L	T	P			Internal Assessment	Theory	Practical	Total	
1.	Professional Elective Courses		Professional Elective Courses(PEC) : Refer List-II	3	0	0	3	3	25	75		100	3
2.	Professional Core Courses	PCC-ME-401	Design of Machine Element-II	3	0	0	3	3	25	75		100	3
3	Professional Core Courses	PCC-ME-402	Automobile Engineering	3	0	0	3	3	25	75		100	3
4	Professional Core Courses	PCC-ME-403	Entrepreneurship Development	3	0	0	3	3	25	75		100	3
5	Professional Elective Courses		Professional Elective Courses(PEC) : Refer List-III	3	0	0	3	3	25	75		100	3
	Open Elective Courses(OEC)	OEC	Refer OEC List-IV	3	0	0	3	3	25	75		100	3
6	Practical	LC-ME-403	Workshop Lab-III	0	0	2	2	1	25		25	50	3
7	Seminar	PCC-ME-405	Seminar	0	0	2	2	1	25		25	50	3
8.	Practical Training	PT-ME-409	Practical Training-II	0	0	1	1		Refer Note:1 (Grading)				
9.	Mandatory courses (non-credit)	MC-317	Constitution of India	2	0	0	2		Refer Note:2 (Grading)				
TOTAL CREDIT								20	200	450	50	700	3

Note: 1. The evaluation of Practical Training-II(PT-ME-409G) will be based on seminar, viva-voce, report submitted by the students. According to performance, the students are awarded grades A, B, C, F. A student who is awarded 'F' grade is required to repeat.
 Practical Training, Excellent: A; Good : B; Satisfactory: C; Not Satisfactory: F.


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 Balana Mohindergarh (HR.)

2 The students will be awarded grades A, B, C & F in Evaluation of Constitution of India. A student who is awarded 'F' grade is required to repeat.
Excellent: A; Good : B; Satisfactory: C; Not Satisfactory: F.

3. Choose any one subject from Professional Elective Courses(PEC) (Semester-VII) LIST-II and LIST-III

PROFESSIONAL ELECTIVE COURSES(PEC) (Semester-VII) LIST-II

S.No.	Code	Name of Course	No. of Contact Hours	Credits
1.	PEC-ME-401	Refrigeration & Air Conditioning	3	3
2.	PEC-ME-403	Project Management	3	3
3.	PEC-ME-405	Numeric Control of Machine Tools and Robotics	3	3
4.	PEC-ME-407	Finite Element Analysis	3	3

Note: Students will have to select any one out of the list.

PROFESSIONAL ELECTIVE COURSES(PEC) (Semester-VII) LIST-III

S.No.	Code	Name of Course	No. of Contact Hours	Credits
1.	PEC-ME-409	Noise and Vibrations	3	3
2.	PEC-ME-411	Solar Energy Engineering	3	3
3.	PEC-ME-413	Tribology	3	3
4.	PEC-ME-415	Composite Materials	3	3

OPEN ELECTIVE COURSES(OEC)-LIST-IV

List-IV (Semester VII)

S.No.	Code	Name of Course	No. of Contact Hours	Credits
1.	OEC -ME-402	Operation Research	3	3
2.	OEC -ME-410	Quality Engineering	3	3
3.	OEC -EE-412	Electrical Power Generation	3	3
4.	OEC-CSE-430	Computer Communication	3	3
5.	OEC-CE- 448	Traffic Engineering and Road Safety	3	3
6.	OEC-CE- 450	Disaster Management	3	3
7.	OEC -ECE-453	Microprocessor Application in Automobiles Sector	3	3

Note:

1. Students will have to select any one out of the list.
2. An elective paper will be offered to the students when at least 15 students will choose that subject and the expertise of the same is available in the Department/Institute.



M. Yadav
Principal
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Balana Mohindergarh (HR)

Course code	MC-317				
Category	Mandatory Course				
Course title	Constitution of India				
Scheme and Credits	L	T	P	Credits	Semester-VII
	2	0	0	0	

MC-317G is mandatory non-credit course in which the students will be awarded grades.

Note: 2 The students will be awarded grades A, B, C & F in Evaluation of Constitution of India. A student who is awarded 'F' grade is required to repeat.

Excellent: A; Good : B; Satisfactory: C; Not Satisfactory: F.

Course Objectives: Students will be able to:

1. Understand the premises informing the twin themes of liberty and freedom from a civil rights perspective.
2. To address the growth of Indian opinion regarding modern Indian intellectuals' constitutional role and entitlement to civil and economic rights as well as the emergence of nationhood in the early years of Indian nationalism.
3. To address the role of socialism in India after the commencement of the Bolshevik Revolution in 1917 and its impact on the initial drafting of the Indian Constitution.

UNIT-I

Philosophy of Indian Constitution: Salient features of Indian Constitution, Preamble, and Nature of Indian Constitution, Procedure for amendment of the Constitution.

UNIT-II

Federal structure and distribution of legislative and financial powers between the Union and the States

UNIT-III

Organs of Governance: President – Qualification and Powers of the President, Governor Qualification and Powers of Governor, Parliament: Composition, Qualifications and Disqualifications, Judiciary: Appointment, Tenure and Removal of Judges.

UNIT-IV

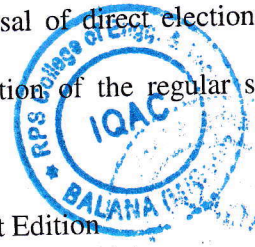
Fundamental Rights: Origin and development of Fundamental rights, Need for fundamental rights. Introduction to Right to equality, Right to freedom, Right against exploitation, Right to freedom of religion, Cultural and Education rights and Fundamental duties.

Course Outcomes: Students will be able to:

1. Discuss the growth of the demand for civil rights in India for the bulk of Indians before the arrival of Gandhi in Indian politics.
2. Discuss the intellectual origins of the framework of argument that informed the conceptualization of social reforms leading to revolution in India.
3. Discuss the circumstances surrounding the foundation of the Congress Socialist Party [CSP] under the leadership of Jawaharlal Nehru and the eventual failure of the proposal of direct elections through adult suffrage in the Indian Constitution.
4. Discuss the passage of the Hindu Code Bill of 1956. The examination of the regular students will be conducted by the concerned college/Institute internally.

References:

1. The Constitution of India, 1950 (Bare Act), Government Publication.
2. Dr. S.N. Busi, Dr. B.R. Ambedkar framing of Indian Constitution, latest Edition
3. M.P. Jain, Indian Constitution Law, Lexis Nexis, latest edition
4. D.D. Basu, Introduction to Constitution of India, Lexis Nexis, latest edition.



Rajyodao

Principal
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Balana Mohindergarh (HR.)

The choice of the students for any elective shall not be binding for the department to offer, if the department does not have expertise. To run the elective course a minimum of 1/3rd students of the class should opt for it.

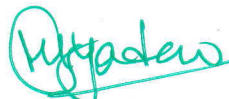
Scheme of Studies and Examination
B.TECH (Mechanical Engineering) – 5th Semester
w.e.f. 2020-21

S. N.	Course Code	Course Title	Hours per week			Total Contact hrs/week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)	
			L	T	P			Internal Assessment	External Examination	Practical	Total		
1	PCC-ME-301	Computer Aided Design & Manufacturing	3	0	0	0	3	25	75		100	3	
2	PCC- ME-303	Solid Mechanics	3	1	0	4	4	25	75		100	3	
3	PCC- ME-305	Manufacturing Technology-I	3	0	0	3	3	25	75		100	3	
4	PCC- ME-307	Kinematics of Machine	3	0	0	3	3	25	75		100	3	
5	PCC- ME-309	Fluid Machines	3	0	0	3	3	25	75		100	3	
6	OEC/HSMC-I	Refer List -I	2	0	0	2	2	25	75		100	3	
7	LC-ME-311	Computer Aided Design & Manufacturing Lab	0	0	2	2	1	25		25	50	3	
8	LC-ME-313	Fluid Machines Lab	0	0	2	2	1	25		25	50	3	
9	LC-ME-315	Kinematics of Machine Lab	0	0	2	2	1	25		25	50	3	
10	PT-ME-317G	Practical Training-I	0	0	2	2	0					3	
11	MC-315	Essence of Indian Traditional knowledge											
TOTAL							21					750	

Note:

- The evaluation of Practical Training-I will be based on seminar, viva-voce, report submitted by the students. According to performance, the students are awarded grades A, B, C, F. A student who is awarded 'F' grade is required to repeat Practical Training.

Excellent: A; Good : B; Satisfactory: C; Not Satisfactory: F.


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Course code	MC-315			
Category	Mandatory Course			
Course title	Essence of Indian Traditional Knowledge			
Scheme and credits	L	T	P	Credits
	2	0	0	0

Course Contents

- Basic structure of Indian knowledge System
- Modern Science and Indian Knowledge System
- Yoga and Holistic Health care
- Case studies

References

1. V. Sivaramakrishnan (Ed.), *Cultural Heritage of India-course material*, Bharatiya Vidya Bhavan, Mumbai. 5th Edition, 2014
2. Swami Jitatmanand, *Modern Physics and Vedant*, Bharatiya Vidya Bhavan
3. Swami Jitatmanand, *Holistic Science and Vedant*, Bharatiya Vidya Bhavan
4. Fritzof Capra, *Tao of Physics*
5. Fritzof Capra, *The Wave of life*
6. VN Jha (Eng. Trans.), *Tarkasangraha of Annam Bhatta*, International Chinmay Foundation, Velliarnad, Arnakulam
7. *Yoga Sutra of Patanjali*, Ramakrishna Mission, Kolkata
8. GN Jha (Eng. Trans.), Ed. RN Jha, *Yoga-darshanam with Vyasa Bhashya*, Vidyavidhi Prakashan, Delhi 2016
9. RN Jha, *Science of Consciousness Psychotherapy and Yoga Practices*, Vidyavidhi Prakashan, Delhi 2016
10. P B Sharma (English translation), *Shodashang Hridayam*



M. J. D. S.
Principal

R.P.S. College of Engg. & Tech
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**RAO PAHLAD SINGH COLLEGE OF ENGG. & TECH.**Approved by AICTE / Govt. of India & Affiliated to I.G.U., Meerpur
Balana, Mohinderghar, Haryana - 123029

Telephone: 01285-241431 Fax: 241434

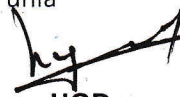
E-mail: rpsbalana@gmail.com, Website: www.rpsinstitutions.org

TIME TABLE**Department of Mechanical Engineering****B. TECH 7TH SEM****Room No. 205 A****wef: 12/09/2022**

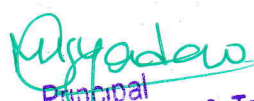
Time	9:00-10:00	10:00-11:00	11:00-12:00	12:00-12:30	12:30-1:30	1:30-2:30	2:30-3:30
	I	II	III		IV	V	V1
Monday	RAC	DME-II	OR		SOLAR	EDM	LIB.
Tuesday	AE	COI	RAC		SOLAR	DME-II	PT-II
Wednesday	DME-II	OR	SOLAR		AE	EDM	PD
Thursday	RAC	DME-II	AE		COI	RAC LAB.	
Friday	RAC	DME-II	AE		OR	EDM	SEMINAR
Saturday	GATE(VK)				GATE(MK)		

SOLAR Mr. Gajanand
RAC Mr. Vipin
PT-II Mr. Manjeet
OR Mr. Sumit Saini

DME-II Mr. Sumit Singla
EDM Ms. Versha
Seminar Mr. R. S. Yadav
COI Mr. Parveen Kumar
AE Mr. Anil Punia


HOD



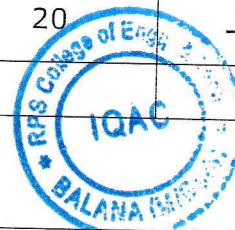

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**CURRICULUM AND SCHEME OF EXAMINATIONS OF
BBA PROGRAMME FROM THE SESSION 2014-15**

SECOND YEAR

Third Semester

Paper No	Title of Paper(s)	External Marks	Internal Assessment/ Work-shop Marks	Practical Marks	Total Marks
BBAN301	Cost and Management Accounting	80	20	-	100
BBAN302	Marketing Management	80	20	-	100
BBAN303	Capital Markets	80	20	-	100
BBAN304	Introduction to Information Technology	50	-	50	100
BBAN305	Environment Studies	80	20	-	100
BBAN306	Disaster Management	80	20	-	100
	TOTAL				600



Fourth Semester

Paper No	Title of Paper(s)	External Marks	Internal Assessment/ Work-shop Marks	Practical Marks	Total Marks
BBAN401	Financial Management	80	20	-	100
BBAN402	Human Resource Management	80	20	-	100
BBAN403	Business Research Methods	80	20	-	100
BBAN404	Business Laws	80	20	-	100
BBAN405	Data Base Management System	50	-	50	100
BBAN406	Human Rights and Values	80	20	-	100
	TOTAL				600

Session 2014-15

Principal
 R.P.S. College of Engg. & Tech
 Balana Mohindergarh (HR.)

External Marks: 80

Internal Marks: 20

Time: 3 hrs.

HUMAN RIGHTS AND VALUES

PAPER CODE: BBAN-406

Unit – I

Concept of Human Rights, Indian and international perspectives of Human Rights, Evolution of Human Rights, Human Rights movements in India, Classification of Human Rights and Relevant Constitutional Provisions to Right to Life, Liberty and Dignity, Right to Equality, Right against Exploitation, Cultural and Educational Rights, Economic Rights, Political Rights and Social Rights.

Unit – II

Deprivation of Human Rights – Core Issues: Poverty, overpopulation, illiteracy, Problems of Unsustainable Development, Disadvantaged Groups – (a) Women (b) Children (c) Scheduled Castes and Scheduled Tribes (d) Homeless and Slum Dwellers (e) Physically and Mentally Handicapped f. Refugees and Internally Displaced Persons.

Unit-III

Redressal Mechanisms for Human Rights Violations: Violation of Human Rights by State. Violation of Human Rights by Individuals and groups, Nuclear Weapons and terrorism. Government systems for Redressal, Judiciary, National Human Rights Commission and other Statutory Commissions, Media Advocacy, Creation of Human Rights Literacy and Awareness.

Unit – IV

Concept of Human Values: Aim of education and value education; Evolution of value oriented education; Concept of Human values; types of values; Components of value education. Character Formation Towards Positive Personality - Truthfulness, Sacrifice, Sincerity, Self-Control, Altruism, Tolerance, Scientific Vision; Value Education towards National and Global Development, National Integration and international understanding.

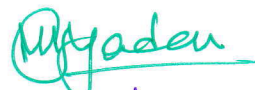
Suggested Readings:

1. Alam, Aftab ed., *Human Rights in India: Issues and Challenges* (New Delhi: Raj Publications, 1999)
2. Bajwa, G.S. and D.K. Bajwa, *Human Rights in India: Implementation and Violations* (New Delhi : D.K. Publishers, 1996)
3. Grose. D. N - "A text book of Value Education" New Delhi (2005) Dominant Publishers and Distributors
4. Mani, V.S., *Human Rights in India: An Overview* (New Delhi: Institute for the World Congress on Human Rights, 1998)
5. NHRC, *Know Your Rights Series* (2005)
6. NHRC, *Human Rights Education for Beginners* (2005)
7. NHRC, *Discrimination Based on Sex, Caste, Religion and Disability* (2004)
8. Ruhela S. P - "Human Value and Education" New Delhi - Sterling publishers
9. Singh, B.P. and Sehgal, (ed.) *Human Rights in India: Problems and Perspectives* (New Delhi: Deep and Deep, 1999)
10. Yogesh Kumar Singh and Ruchika Nath - "Value Education" New Delhi (2005) A. P. H Publishing Corporation

Note:

1. **Instructions for External Examiner:** The question paper shall be divided in two sections. **Section 'A'** shall comprise of eight short answer type questions from whole of the syllabus carrying two marks each, which shall be compulsory. Answer to each question should not exceed 50 words normally.
2. **Section 'B'** shall comprise of 8 questions (2 questions from each unit). The students will be required to attempt four questions selecting one question from each unit.
3. All questions will carry equal marks.

Session 2014-15


 Principal
 R.P.S. College of Engg. & Tech
 Balana Mohinderghar (HR.)

External Marks: 80

Internal Marks: 20

Time: 3 hrs.

ENVIRONMENTAL STUDIES

PAPER CODE: BBAN-305

UNIT-I

Environmental studies – Nature, scope and importance, need for public awareness; natural resources – renewable and non-renewable resources, use and over-exploitation/over-utilization of various resources and consequences; role of an individual in conservation of natural resources; equitable use of resources for sustainable lifestyles.

UNIT-II

Ecosystems – concept, structure and function of an ecosystem; energy flow in the ecosystem; ecological succession; food chains, food webs and ecological pyramids; types of ecosystem – forest ecosystem, grassland ecosystem, desert ecosystem, aquatic ecosystems.

Environmental Pollution – Definition, cause, effects and control measures of different types of pollutions – air pollution, water pollution, soil pollution, marine pollution, noise pollution, thermal pollution, nuclear hazards; solid waste management – causes, effects and control measures of urban and industrial wastes; role of an individual in prevention of pollution.

UNIT-III

Social issues and the environment – Sustainable development, urban problems related to energy, water conservation, rain water harvesting, watershed management; resettlement and rehabilitation of people, its problems and concerns; climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust; Wasteland reclamation, consumerism and waste products.

UNIT-IV

Environmental legislation – Environment Protection Act, Air (prevention and control of pollution) Act, Water (prevention and control of pollution) Act, Wildlife Protection Act, Forest Conservation Act.


SUGGESTED READINGS:

1. Rajagopalan R, Environmental Studies, Oxford University Press, New Delhi
2. Kaushik Anubha, C.P. Kaushik, Perspective in Environmental Studies, New Age International (P) Ltd. Publishers
3. Joseph Benny, Environmental Studies, Tata McGraw Hill Publishing Company Ltd., New Delhi
4. Ubaroi, N.K., Environment Management, Excel Books, New Delhi

Note:

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Session 2014-15


 Principal
 R.P.S. College of Engg. & Tech
 Balana Mohindergarh (HR.)

DISASTER MANAGEMENT

PAPER CODE: BBAN 306

External marks: 80
Internal marks: 20
Time: 3hrs.

UNIT-I

Structure of the atmosphere; Pressure, temperature, precipitation, cloud classification and formation; calories force; El Nino phenomenon; western disturbance; energy model and budget of the earth. Primary differentiation and formation of core, mantle, crust, atmosphere and hydrosphere; magma generation and formation of igneous rock; weathering; erosion; transportation and deposition of earth's material by running water; river meandering and formation of ox-bow lake.

UNIT-II

Depletion of natural capital; development as causes of disaster; rapid population growth, environmental pollution; epidemics; industrial accidents and chemical releases; multipurpose project and resettlement issues; humanitarian assistance in emergencies.

UNIT-III

Floods- flood plains, drainage, basins, nature and frequency of flooding, flood hazards, urbanization and flooding, flood hydrographs, dams barrages and rivers diversions, creation of reservoir, influence on micro-climate, impact on flora and fauna.

Landslides- landslide analysis, determination of stability and safety factor.

Coastal hazards- tropical cyclone, coastal erosion, sea level changes and its impact on coastal areas and coastal zone management.

Climate change- Emissions and global warming, impact on sea level in south Asian region environmental disruptions and their implications.

UNIT-IV

Earth quakes- preliminary concepts, seismic waves, travel-time and location of epicenter, nature of destruction, a seismic designing, quake resistant building and dams.

Tsunamis- causes and location of tsunamis; disturbance in sea floor and release of energy, travel time and impact on fragile coastal environment volcanoes-causes of volcanism, volcanism materials, geographic distribution of volcanoes.


Suggested Readings

1. William H. Dennen and Bruce R. Moore, WCB Publishers, Iowa, 1986.
2. John M. Wallace and Peter V. Hobbs, Atmospheric science: An Introductory Survey, Academic Press, New York, 1977.
3. Egbort Bocker and Reink Van Grondille, environmental Physics, John Wiley & Sons Ltd., 1999.
4. Barbar W. Murk et. al., Enviromental Geology, John Wiley & Sons, New York, 1996.
5. Bohle, H.G., Downing, T.E. and Watts, M.J. Climate Change and Social Vulnerability: the sociology and geography of food insecurity, Global Environmental, Changes. No 4, pp. 37-48

Note:

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Session 2014-15


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 Balana Mohindergarh (HR.)

**CURRICULUM AND SCHEME OF EXAMINATIONS OF
BBA PROGRAMME FROM THE SESSION 2014-15**

SECOND YEAR

Third Semester

Paper No	Title of Paper(s)	External Marks	Internal Assessment/ Work-shop Marks	Practical Marks	Total Marks
BBAN301	Cost and Management Accounting	80	20	-	100
BBAN302	Marketing Management	80	20	-	100
BBAN303	Capital Markets	80	20	-	100
BBAN304	Introduction to Information Technology	50	-	50	100
BBAN305	Environment Studies	80	20	-	100
BBAN306	Disaster Management	80	20	-	100
	TOTAL				600

Fourth Semester

Paper No	Title of Paper(s)	External Marks	Internal Assessment/ Work-shop Marks	Practical Marks	Total Marks
BBAN401	Financial Management	80	20	-	100
BBAN402	Human Resource Management	80	20	-	100
BBAN403	Business Research Methods	80	20	-	100
BBAN404	Business Laws	80	20	-	100
BBAN405	Data Base Management System	50	-	50	100
BBAN406	Human Rights and Values	80	20	-	100
	TOTAL				600

Session 2014-15


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**CURRICULUM AND SCHEME OF EXAMINATIONS OF
BBA PROGRAMME FROM THE SESSION 2014-15**

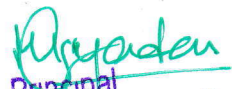
THIRD YEAR
Fifth Semester

Paper No	Title of Paper(s)	External Marks	Internal Assessment/ Work-shop Marks	Practical Marks	Total Marks
BBAN501	Production and Materials Management	80	20	-	100
BBAN502	Company Law	80	20	-	100
BBAN503	Indian Business Environment	80	20	-	100
BBAN504	Computer Networking & Internet	50	-	50	100
BBAN505	Presentation Skills and Personality Development	80	20	-	100
BBAN506	Cyber Security	80	20	-	100
BBAN507	Summer Training Report	100	-	-	100
	TOTAL				700

Sixth Semester

Paper No	Title of Paper(s)	External Marks	Internal Assessment/ Work-shop Marks	Practical Marks	Total Marks
BBAN601	Income Tax	80	20	-	100
BBAN602	System Analysis & Design	80	20	-	100
BBAN603	Foundations of International Business	80	20	-	100
BBAN604	Consumer Protection	80	20	-	100
BBAN605	E-Commerce	50	-	50	100
BBAN606	Project Report	100	-	-	100
BBAN607	Comprehensive Viva-voce	100	-	-	100
	TOTAL				700

Session 2014-15


 Principal
 R.P.S. College of Engg. & Tech
 Balana Mohindergarh (HR.)

External Marks: 80

Internal Marks: 20

Time: 3 hrs.

HUMAN RIGHTS AND VALUES

PAPER CODE: BBAN-406

Unit – I

Concept of Human Rights, Indian and international perspectives of Human Rights, Evolution of Human Rights, Human Rights movements in India, Classification of Human Rights and Relevant Constitutional Provisions to Right to Life, Liberty and Dignity, Right to Equality, Right against Exploitation, Cultural and Educational Rights, Economic Rights, Political Rights and Social Rights.

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Deprivation of Human Rights – Core Issues: Poverty, overpopulation, illiteracy, Problems of Unsustainable Development, Disadvantaged Groups – (a) Women (b) Children (c) Scheduled Castes and Scheduled Tribes (d) Homeless and Slum Dwellers (e) Physically and Mentally Handicapped f. Refugees and Internally Displaced Persons.

Unit-III

Redressal Mechanisms for Human Rights Violations: Violation of Human Rights by State. Violation of Human Rights by Individuals and groups, Nuclear Weapons and terrorism. Government systems for Redressal, Judiciary, National Human Rights Commission and other Statutory Commissions, Media Advocacy, Creation of Human Rights Literacy and Awareness.

Unit – IV

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8. Ruhela S. P – "Human Value and Education" New Delhi – Sterling publishers
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3. All questions will carry equal marks.

Session 2014-15


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External Marks: 80

Internal Marks: 20

Time: 3 hrs.

CONSUMER PROTECTION**PAPER CODE: BBAN-604****UNIT-I**

Concept and types of consumer, need for consumer protection; approaches to consumer protection; consumer buying motives; doctrines of caveat emptor and caveat venditor; concept of consumer's sovereignty; basic consumer rights.

UNIT-II

Measures for consumer protection in India; basic provisions of the Consumer Protection Act.(CPA)1986; organizational set up for consumer protection under CPA; procedure of filing a complaint; relief available.

UNIT-III

Competition Act – Provisions relating to consumer protection; Role of voluntary consumer organizations; formation and registration of a voluntary consumer organization, business self-regulation, consumer awareness – role of media and government.

UNIT-IV

Recent developments in consumer protection movement; consumer information and knowledge as means of protection; sources of consumer information, ethical marketing as an instrument of consumer protection, Role of Advertising Standard Council of India in consumer protection.

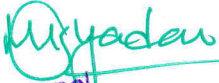
SUGGESTED READINGS:

1. Aaker and Day (eds.), Consumerism: Search for the Consumer Interest
2. Gulshan, Consumer Protection and Satisfaction: Legal and Managerial Dimensions
3. Aggarwal, Consumer Protection in India
4. Verma Y.S. and C. Sharma, Consumerism in India, Anamika Prakashan, Delhi

Note:

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Session 2014-15


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