



**RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY**

(An Institution of National Importance, Government of India)

## **Ordinance**

**Master of Business Administration (MBA)**

**in**

**ENERGY TRANSITION**

**Department of Management Studies RGIPT, Jais, Amethi,  
Uttar Pradesh**

**2022–23 Academic Year**

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## **1. ABOUT THE PROGRAM: MBA IN ENERGY TRANSITION**

Rajiv Gandhi Institute of Petroleum Technology (RGPT) being a premier domain-specific Institution of National Importance in the country, prioritizes capacity development in domain industries as one of the important objectives. The global energy sector is projected to undergo a revolutionary transition from fossil-based sources to a renewable forms of energy such as solar, H<sub>2</sub>, and wind to provide solutions to climate change and global warming. Therefore, capacity development of existing working professionals and freshly qualified manpower's in the evolving renewable energy domains is envisaged to fuel this transition and facilitate market establishment in a new sector. Supporting the above, the Department of Management Studies proposes an MBA programme in energy transition with multiple entries and exit options along NEP 2020. The programme is designed to run under online mode mainly. The focus of the programme will be on understanding the consumption trends of energy nationally and internationally. The course aims to provide industry professionals, bureaucrats and policymakers an insight into the future energy resources, energy economics and climate issues resulting from a carbon-based energy basket. The programme also caters to industry professionals who have a technical background and experience in the energy domain by helping them understand the social, economic and political impact of energy production and consumption. The programme is divided into four semesters of 20 weeks each.

## **2. PROGRAM STRUCTURE**

Primarily, this is a two year (4 semesters) MBA degree programme. Considering the suitability and requirements of working professionals and to broaden the academic offerings & offer flexibility along the lines of NEP 2020, the programme is designed to provide entry and exit at multiple points and the candidates joining the programme will have the opportunity to join the programme at different semesters based on the initial qualification as described below

### **Entry points**

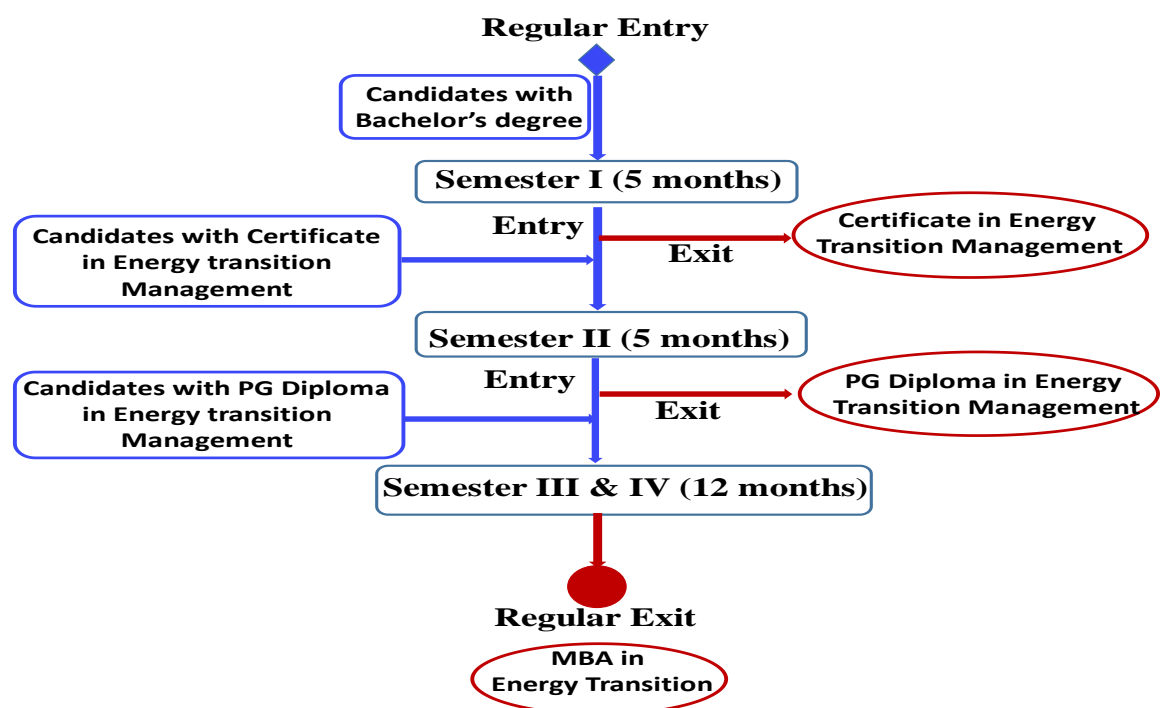
- Candidates possessing bachelor's degree: at the beginning of the first semester for certificate, PG Diploma and MBA Degree programme
- Candidates possessing a certificate in Energy transition management of the Institute: at the beginning of second semester for PG Diploma and MBA Degree programme
- Candidates possessing a PG Diploma in Energy transition management of the Institute: at the beginning of third semester for MBA Degree programme

The programme offers multiple exit points to the candidates and with the qualifying of necessary criteria (Clause 9.1 & 9.2) the students will have the opportunity to exit the programme with Certificate, PG Diploma or MBA Degree in Energy transition as described below

### Exit points

- At the end of the first semester: on successful completion of I semester, the candidates are eligible to receive Certificate in Energy transition management
- At the end of the second semester: on successful completion of I & II semesters, the candidates are eligible to receive Certificate in Energy transition management and PG Diploma in Energy transition management
- At the end of fourth semester: on successful completion of I - IV semesters, the candidates are eligible to receive a Certificate in Energy transition management, PG Diploma in Energy transition management and Degree of MBA in Energy transition

The **following Flow chart** shows all the entry and exit points for the multiple programmes embedded in the MBA in Energy transition.



### 2.1 Academic Session

The academic session begins in the first week of July every year and ends in May in the subsequent year. It is divided into two parts as follows:

<b>Odd Semester</b>	<b>August to December</b>
<b>Even Semester</b>	<b>January to May</b>

Each of the two semesters consists of about Twenty (20) weeks which includes one Mid-semester examination and one end semester examination at the end of the semester.

## **2.2 Academic Calendar**

The dates of all important events, such as orientation, registration, late registration, commencement of classes, adding and dropping of courses, Institute festivals and functions, examinations, submission of grades, etc., during the Academic Session are specified in the Academic Calendar of the Institute, approved by the Senate every year.

## **2.3 Number of seats**

The number of seats for the MBA in Energy Transition programme will be decided by the admission committee and approved by the academic Senate every year.

## **2.4 Credit requirement**

A student is required to complete successfully all the courses of the curriculum prescribed for the programme with no failed grades and acquire credit in the range mentioned below;

Programme	Credit to be earned to qualify for the programme
Certificate in Energy Transition Management	66
PG Diploma in Energy Transition Management	122
MBA in Energy Transition	244

## **3. ELIGIBILITY FOR ADMISSION**

### **3.1. An Eligibility for MBA in Energy Transition**

#### **Educational Qualifications**

- The candidate must have studied Mathematics at 10<sup>th</sup>.
- Candidates must hold a Bachelor's degree with a minimum 50% marks (45% for SC/ST/PH) or Cumulative Performance Index (CPI) of 5.00 (4.50 for SC/ST/PH).
- The candidate shall be currently working as a regular employee in any industry at a minimum level of Asst. Manager or equivalent.

- Government functionaries (bureaucrats and policymakers) at a minimum pay matrix level 10 of 7<sup>th</sup> CPC or equivalent.

### **3.1.1 Company sponsored candidates:**

- The candidates shall qualify the eligibility criteria described in Clause 3.1
- The Firm/Company/Industry shall either be a public sector undertaking or a public limited company registered in a stock exchange or a private concern whose annual turnover during the past two years exceeds Rs. 5 crores.
- Sponsored candidates should produce a sponsorship certificate and no-objection certificate from the employer.

### **3.2. Selection Procedure**

A selection is prepared based on the list of candidates provided by company. All admissions to the postgraduate programmes should be formally approved by the SPGC.

### **3.3 Age Limit**

There is no age limit for candidates seeking admission to MBA in Energy Transition.

### **4.0 Curriculum**

- The curriculum of MBA in energy transition programme as approved by the Academic Senate of the Institute will be followed for this programme, which will be revised periodically based on the necessity. A tentative course grid for the Programme to be followed for candidates joining in 2022-23 is enclosed as **Annexure III**.

## **5. PROGRAM FEES**

### **5.1 Fee structure**

The fee structure for the MBA in Energy Transition applicable to students getting admitted in 2022-23 is enclosed as **Annexure-IV**.

### **Registration**

- Candidates will be required to fill up the online registration form on the website of RGIPT. When filling up the online form, the candidate will be required to upload soft copies of the required documents (**Annexure II**).
- All students are required to register at the beginning of each semester on the dates specified in the Academic Calendar for the courses to be pursued by them, as per the

programme. A student must ensure that he/she has completed the pre-requisites if any, for each course to be registered. *The sole responsibility for registration rests with the student concerned.*

## **5.2. Registration Procedure**

A list of courses to be offered during the Semester is made available by the Department Post-Graduate Committee (DPGC) and is put up on the website. A faculty advisor shall be appointed to facilitate the registration procedure.

The registration procedure involves:

- a) Filling of the registration form, mentioning the courses to be credited in the Semester
- b) Payment of fees and clearance of outstanding dues (if any), and
- c) Signing of the registration roll in the office of the Dean, Academic Affairs as notified.

## **6. Attendance**

Attendance of students in lectures and project work is important for learning process. Participation of students in different virtual class room, curricular, co-curricular and other activities facilitates interactive process of learning making attendance a very important component of Academic Programme. Students are expected to be present in all the classes i.e. 100% attendance. However, it is noted that a student may miss few classes due to several exigencies. A grace of 25% in attendance is allowed for minor illness and urgencies, for which no application will be required to be submitted.

## **7. TEACHING**

### **7.1 Medium**

The medium of instruction is **ENGLISH**.

### **7.2 Online Classes**

The classes will be conducted via online mode using virtual platforms. Online lectures can be attended via internet using a computer from any location. If a candidate misses a lecture, they can also access the recorded lecture on the dedicated learning management system (LMS) of website of RGIPT. The details of online portals will be communicated to all the



students well in advance. The students should ensure a suitable internet connection with adequate speed is available for effective participation in the lectures.

**Class duration-** Classes will be of 90 mins duration. A total of seven classes (four lectures on Saturday, and three lectures on Sunday, if not declared a holiday) shall be held per week.

### **7.3 Digital access**

Candidates can access learning material at their own place, including recorded lectures from faculty members, course handouts, and etc, available on the learning management system (LMS).

### **7.4 Approval of Courses**

Each course along with credits is approved by the Senate of RGIPT. The courses offered in each semester shall be as per the approved course structure.

### **7.5 List of Courses**

The list of courses to be offered by a Department is finalized before the beginning of the semester/ summer semester by the concerned DPGC, taking into consideration all the requirements and the recommendations of the standing committees of the Senate.

### **7.6 Conduct of Courses**

Each course is conducted by a course coordinator with the assistance of the required number of teachers. The course coordinator and other teachers are responsible for conducting the course, holding the examinations, evaluating the students' performance, awarding grades at the end of the semester and transmitting the grades to the office of Dean (Academic Affairs) within the prescribed time limit.

### **7.7 Faculty**

The courses will be taught by core faculty members of the Institute along with faculty members from IIMs, ISB, FMS, IITs, NITs, reputed business schools from abroad, and from industries to maintain a high standard in teaching, learning activity.

### **7.8 Evaluation**

A student shall be continuously evaluated for his/her academic performance in a course through home assignments, seminars, quizzes, Periodical Tests, projects, Mid-Semester Examination and the End-Semester Examination, as applicable.

## 7.9 Mode of Examination

The End semester examination will be conducted via online mode or any other mode as decided by the Senate. The quizzes, class tests, and seminars etc will be conducted via online mode.

## 7.10 Distribution of components

The distribution of weightage for each component shall be as follows:

<b>(a) Theory Courses with Project:</b>	
(i) End Semester Examination	50
(ii) Mid Semester Examination	20
(ii) Project Work	20
(iii) Quizzes/short tests, tutorials, assignments	10
<b>Total</b>	<b>100</b>

## 7.11 Coordination Committee

(a) For each course of a semester, a Coordination Committee shall be constituted by the DPGC. The DPGC shall also nominate one faculty from amongst the members of the committee to act as the Convener of the committee. The Coordination Committee shall consist of all the teachers involved in teaching and conducting classes for that course (lectures, projects, seminars, etc.). The committee shall have at least two members. If only one teacher is involved in teaching, the DPGC will include one additional faculty of the area related to the course as member in the committee.

(b) The Coordination Committee\* shall have the following functions during the semester.

- i) Planning and coordination of teaching theory subjects.
- ii) Scheduling home assignments, quizzes, tutorials, etc.
- iii) Conducting and assessing the Periodical Tests, etc.
- iv) Setting of question papers for Mid Semester and End Semester Examinations.

The following should be observed by the Coordination Committee;

- a) Question paper should be designed in such a manner that it covers the complete syllabus as per course structure and content given in course booklet/Academic Portal and announces to the student by the concerned teacher at the beginning of the semester.
- b) Question paper should be designed in a manner that it contains the questions of varying difficulty levels.

For example: Paper should have the fair balance of questions containing direct question/ logical reasoning/ analytical ability/ mathematical ability/ case studies and questions of applied nature depending upon the subject.

c) The question paper should be designed in a manner that students should complete the paper in the prescribed duration of the examinations. The question paper should not be short or long duration i.e. time distribution should be fair.

d) Marks assigned to the questions should be fairly distributed over all units of the course content of the concerned subject.

v) Evaluation of Answer books and preparation of final marks list and submitting grades to the Examination Section, Office of Dean (Academic Affairs).

\* If only one teacher is involved in teaching, all the functions except setting of question papers for Mid Semester and End Semester Examination shall be carried out by the convener only.

### **7.12 Assignment of project**

Two projects will be assigned to the students during the programme. Project-I will be assigned at the end of First semester and Project-II will be assigned at the end of third semester to the students. For each project, a Project Coordination Committee (PCC) shall be constituted by DUGC in consultation with the respective Head of the Department. Such committees will be formed towards the end of the semester previous to the semester in which the project has to commence. Committee once constituted shall ordinarily remain unchanged till the completion of the project.

The Coordination Committee will invite titles of projects from the faculty towards the end of the semester previous to the semester in which the project has to commence. The list of projects will be communicated to students and a tentative assignment of projects will be completed by the committee before the end of the previous semester. In assigning projects interest of students for working in chosen areas should also be considered. Students may also submit project proposals to the coordination committee with the consent of faculty.

Before assigning supervisor(s), students will be given time to interact with faculty. The maximum number of students permitted with a faculty may be reasonably fixed by the departments/ schools. Normally not more than two supervisors (Supervisor and Co Supervisor) be assigned to a student. The Co-supervisor will be assigned from the employing company and the student will carry out the project work at his/her working place.

The final assignment of projects and supervisor(s) be completed by the Department by the

First Week of the semester in which the project has to commence.

### 7.13 Supplementary Examinations

If a student, for cogent reasons such as illness, etc., fails to appear in the end-semester examination in one or more course(s), or if a student fails in one or more courses in the Mid-semester and End-semester examination, he/she may make a request to Dean (Academic Affairs) through DPGC for a supplementary examination. Such a request must, however, be made on a prescribed form, available in the Academic Office, giving reasons for the failure to appear in the end-semester examination with a certificate from a Medical Officer, in case the failure was due to illness. The supplementary examination, if approved will be conducted in the month of June and December for the Odd and Even semesters respectively. A separate grade sheet shall be issued for the Supplementary Examination.

## 8. GRADING SYSTEM

### 8.1 Grades and Grade Points

At the end of the semester, a student is awarded a letter grade in each of his/her courses by the concerned course coordinator taking into account his/her level of learning based on performance in the various examinations, quizzes, assignments, laboratory/project work (if any), etc. as per the weightage declared in the beginning of the course. The grading should reflect the level of learning by the student; for such a purpose, a relative grading system will be used. In **Relative Grading system**, the grade of a student is awarded based on the student's performance compared to the others in the class.

A student getting **F** grade in a course must repeat it.

The grading systems rules shall be applicable to all participants of Diploma, Certificate, and Degree for MBA in Energy transition programme as given below.

Grade	Grade Point	Description
A*	10	Outstanding (Extraordinarily high level of learning)
A+	10	Excellent
A	9	Very Good
B+	8	Good
B	7	Very Fair

C+	6	Fair
C	5	Average
F	0	Fail (Extremely low level of learning)

Absolute grading system is followed in case of the projects. The details of Marks secured and the corresponding grade to be awarded is as given below:

<u>Grade</u>		<u>Marks</u>
A+	$\geq$	90
B+	$\geq$	70 and less than 90
C+	$\geq$	50 and less than 70
F	$<$	50
<i>(No A, B, C and D grades to be awarded)</i>		

The marks awarded to a candidate may be the average of the marks awarded by the individual members of the committee.

## 8.2 Change of Grade Already Awarded

A letter grade once awarded shall not be changed unless the request is made by the course convener and is approved by the Chairman, Senate. Any such request for change of grade must, however, be made within two weeks of the start of the next semester in the prescribed form available in RGIPT website with all relevant records and justification.

**Semester Performance Index (SPI)** – The Semester Performance Index (SPI) is a weighted average of the grade points obtained by a student in courses and describes his/her academic performance in a Semester. If the grade points associated with the letter grades awarded to a student are G<sub>1</sub>, G<sub>2</sub>, G<sub>3</sub>, G<sub>4</sub>, and G<sub>5</sub> in five courses and the corresponding credits of courses are C<sub>1</sub>, C<sub>2</sub>, C<sub>3</sub>, C<sub>4</sub>, and C<sub>5</sub>, respectively.

$$SPI = \frac{(C_1 \times G_1) + (C_2 \times G_2) + (C_3 \times G_3) + (C_4 \times G_4) + (C_5 \times G_5)}{C_1 + C_2 + C_3 + C_4 + C_5}$$

**Cumulative Performance Index (CPI)** - The Cumulative Performance Index (CPI) indicates the overall academic performance of a student in all the courses registered up to and including the latest completed semester/summer term. It is computed in the same manner as the SPI, considering all the courses (say, n), and is given by

$$CPI = \frac{\sum_{i=1}^n C_i G_i}{\sum_{i=1}^n C_i}$$

Whenever a student is permitted to repeat or substitute a course, the new letter grade replaces the old letter grade in the computation of the CPI, but, both the grades appear on his/her Grade Report. The grade sheet issued at the end of each Semester will reflect the performance of each student in that Semester.

### 8.3 Grade Report

Provisional Semester Grade Report is issued to each student at the end of the semester, having a record of cumulative performance also. Final Grade Report is issued on completion of all requirements of the degree. A duplicate copy, if required, can be obtained on payment of the prescribed fee.

## 9. REQUIREMENTS FOR DEGREE

### 9.1 Normal and Maximum Duration

Participants are expected to complete the programme in a period of two years. But if there is a break in the coursework a student can take a break and repeat the unfinished semester in the next year. However, the student has to complete the curriculum within a maximum period of 4 academic years from the date of first admission to the program as mentioned in Clause 2.5.

A student is required to complete successfully all the courses of the curriculum prescribed for his/her post graduate programme and earn a minimum level of, professional knowledge i.e., obtain *a minimum* value of CPI 5.0 and required credits.

Course Name	Entry point	Credits to be Earned for Qualifying for the Certificate/PG Diploma/Degree
Certificate in Energy Transition Management	At the beginning of the programme (Regular Entry)	66
PG Diploma in Energy Transition Management	At the beginning of the programme (Regular Entry)	132
	At the beginning of the II semester (For candidates with Certificate in Energy Transition Management of Institute)	66 + Credits earned during the Certificate in Energy Transition Management programme
MBA in Energy	At the beginning of the programme (Regular Entry)	264

Transition	At the beginning of the II semester (For candidates with Certificate in Energy Transition Management of Institute)	198 + Credits earned during the Certificate in Energy Transition Management programme
	At the beginning of the III semester (For candidates with PG Diploma in Energy Transition Management of Institute)	132+ Credits earned during the PG Diploma in Energy Transition Management programme

## 9.2 Academic

- A student is required to complete successfully all the courses of the curriculum prescribed for his/her programme and earn a minimum level of professional knowledge, i.e., obtain a **minimum** value of CPI 5.0 and accumulated credits with no fail grade.

## 9.3 Certificate, PG Diploma and MBA Degree requirement

A student is deemed to have completed the requirements -

- Met the normal duration and academic requirements outlined in Sections 9.1 and 9.2
- Satisfied additional requirements, if any, of the concerned department
- Paid all the fees of Institute
- A student on successful completion of Semester I the student will receive a Certificate in Energy Transition, with the condition that he/she fulfils 9.1 & 9.2
- A student on successful completion of Semester I & II will receive a Certificate in Energy Transition and PG Diploma in Energy Transition, with the condition that he/she fulfils 9.1 & 9.2
- A student on successful completion of Semester I-IV will receive a Certificate in Energy Transition, PG Diploma in Energy Transition and MBA degree in Energy transition, with the condition that he/she fulfils 9.1 & 9.2.

## 10. Certificate, PG Diploma and MBA Degree

### 10.1 Award of Certificate, PG Diploma and MBA Degree

A student who completes all the requirements specified in Section 8.3 is recommended to the Senate of RGIPT, for the award of the appropriate Certificate, PG Diploma and MBA degree in the ensuing convocation.

## **10.2 Withdrawal of the Certificate, PG Diploma and MBA Degree**

Under extremely exceptional circumstances, where gross violation of the graduation requirements is detected at a later stage, the Senate may recommend to the withdrawal of a Certificate, PG Diploma and MBA degree already awarded.

## **11. CONDUCT & DISCIPLINE**

### **11.1 Code of Conduct**

Each student shall conduct himself/herself in a manner befitting his/her association with an Institute of national importance. He/she is expected not to indulge in any activity which is likely to bring down the prestige of the Centre/Institution. The Code of Conduct rule of the Institute will be applicable to all the students enrolled in the programme.

## **12. EXAMINATION RELATED RULES**

### **a. Schedule of Examinations:**

The schedule for the mid-semester examination, end Semester examination and the supplementary examination (if any) will be announced in the Academic Calendar. The respective Department will conduct the examination following the schedule specified in the Academic Calendar.

## **CONTACT**

### **MBA In Energy Transition**

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## **Annexure II**

The documents to be enclosed along with the application form

- 10<sup>th</sup> Mark sheet
- 12<sup>th</sup> Mark sheet
- Graduate degree Mark sheet and certificate
- Experience Certificate from employee

### Annexure III

#### The course structure of MBA in Energy Transition and associated programmes

Course Code	Semester I	L-P	Credit
MT5001	Sustainable Energy Policy & Transitions	2-2	8
MT5002	Energy Transition & Economics	2-2	8
MT5003	Finance for Clean Energy	2-2	8
MT5004	Communication & Energy Transition	2-2	8
MT5005	Emerging Technologies for Energy Transition	2-2	8
MT5006	Renewable Energy Management	2-2	8
MT5007	Quantitative Aspects of Management	2-2	8
MT5008	Project	-	10
		<b>Total</b>	66
<b>Semester II</b>			
MT5009	Sustainability & Transition	<b>2-2</b>	8
MT5010	Natural Resource Economics	<b>2-2</b>	8
MT5011	Environmental Laws & Regulations	<b>2-2</b>	8
MT5012	Hybrid & Electric Vehicles	<b>2-2</b>	8
MT5013	Green Marketing	<b>2-2</b>	8
MT5014	Human Resource Management	<b>2-2</b>	8
MT5015	Energy Transition and Its Societal Impacts: Themes, Prospects, and Challenges	<b>2-2</b>	8
		<b>Total</b>	56
<b>Semester III</b>			
MT5017	Green Supply Chain	<b>2-2</b>	8
MT5018	Energy Transition & Public Engagement	<b>2-2</b>	8
MT5019	Climate Finance	<b>2-2</b>	8
MT5020	Solar Energy: Photovoltaic (PV) Systems	<b>2-2</b>	8
MT5021	Consumer Behaviour	<b>2-2</b>	8
	Elective I	<b>2-2</b>	8
	Elective II	<b>2-2</b>	8
		<b>Total</b>	56
<b>Semester IV</b>			
MT5027	AI/ML for Energy Transition	<b>2-2</b>	8

MT5028	International Business Environment for Sustainable Business	<b>2-2</b>	8
MT5029	Derivatives & Energy Trading	<b>2-2</b>	8
MT5030	Green Hydrogen	<b>2-2</b>	8
MT5031	Decision & Risk Analysis	<b>2-2</b>	8
MT5026	Project	-	10
	Elective I	<b>2-2</b>	8
	Elective II	<b>2-2</b>	8
		<b>Total</b>	66

### Electives

<b>Course Code</b>	<b>Semester III</b>	<b>Semester IV</b>	<b>Course Code</b>
MT5022	Social Entrepreneurship for Energy Transition	Creativity & Innovation for Energy Transition	MT5032
MT5023	Smart Grid Modelling	Strategic Management & Business Models	MT5033
MT5024	Data Analytics for Clean Energy	Energy & Infrastructure Modelling	MT5034
MT5025	Designing Work Organization	Co-creating Sustainable Cities	MT5035
MT5037	Waste Management	Carbon Transition & Carbon Foot prints	MT5036

L = Lecture hours per week; P = No. of hours a student is expected to work for the project

Credits for a course  $C = L + P$

**Annexure IV****FEES STRUCTURE for MBA in Energy Transition****(For Students admitted in 2022-2023)**

<b>A. ONE TIME PAYMENT AT THE TIME OF ADMISSION (NON-REFUNDABLE)</b>		
<b>S. No.</b>	<b>Particulars</b>	<b>Heads</b>
<b>1</b>	Admission Fee	4000.00
<b>2</b>	Alumni Membership Fee	1000.00
	<b>Total (A)</b>	<b>5000.00</b>

<b>B. Semester fee (each semester) non-refundable</b>		
<b>1</b>	Tuition Fee	2,00,000.00
<b>2</b>	Examination	5000.00
<b>3</b>	Registration/ Enrolment	1000.00
<b>4</b>	Academic Activities Fee	10000.00
	<b>Total (B)</b>	<b>216000.00</b>

<b>The amount payable as institute's dues at the time of admission (first semester)</b>		
<b>1</b>	<b>TOTAL OF 'A', &amp; 'B'</b>	<b>2,21,000.00</b>

Total (B) Rs. 2,16,000.00 will be payable in the subsequent semesters.