

**NATIONAL INSTITUTE OF TECHNOLOGY PATNA  
PATNA – 800005 (BIHAR)**

**ADMISSION TO M. TECH. FULL TIME PROGRAM: 2010- 11**

Applications are invited from eligible candidates for admission in the M. Tech Program during academic session 2010-11 under following different departments and specialization(s)

<b>Elect. Engg:</b>	(i) Control System (ii) Power system
<b>Civil Engg:</b>	(i) Structural Engg. (ii) Transportation Engg (iii) Water Resources
<b>Mech. Engg:</b>	(i) Refrigeration, Air Conditioning & Heat Transfer (ii) Thermal Turbo Machinery

**Eligibility:** B. Tech./ B.E./ B.Sc. (Engg.) or equivalent Degree in specified branch/ specialization with minimum % marks in aggregate/ CGPA (in ten point Scale) as detailed below:

<i>Category</i>	<i>Minimum % / CGPA</i>	<i>Minimum GATE Score Percentile</i>
General	60%/ CGPA: 6.75	85
OBC	60%/ CGPA: 6.75	76.5
Sponsored	60%/ CGPA: 6.75	85 (if GATE Score is available) or based on written test and/ or Interview
SC/ ST/ PH	55%/ CGPA: 6.25	60

**Reserved Category:** Seats available for SC/ ST/ PH and OBC category as per rules of the MHRD, Govt. of India. Limited seats are available under sponsored category. If suitable candidate is not available under sponsored category, seats shall be transferred to General category.

**The details are available in Information Brochure for the program.**

Information Brochure & Application form may be downloaded from the website [www.nitp.ac.in](http://www.nitp.ac.in) . Application Form completed in all respects with all enclosures and DD of Rs. 500/- for General/ OBC/ Sponsored category and Rs.300 for SC/ ST/ PH in favour of "NATIONAL INSTITUTE OF TECHNOLOGY PATNA" Payable at Patna must reach **latest by 22<sup>nd</sup> July 2010, 5.00pm** to the office of "The Assistant Registrar (Admission), NIT Patna, Ashok Raj Path, PATNA – 800005 (Bihar)"

**Registrar**

# INFORMATION BROCHURE 2010

Post graduate Program  
MASTER OF TECHNOLOGY - M. Tech.



**राष्ट्रीय प्रौद्योगिकी संस्थान पटना**  
NATIONAL INSTITUTE OF TECHNOLOGY PATNA

## Contact Details:

**jkVh; iK iKxch I bFKu iVuk**  
**NATIONAL INSTITUTE OF TECHNOLOGY PATNA**  
**Ashok Raj Path, Patna 800005, BIHAR**

Registrar: 0612- 2660480  
Institute Tele fax No.: 0612- 2670631

Institute Phone No.: 0612 – 2370419, 2371715, 2371929, 2371930, 2372715  
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Email ID: [registrar@nitp.ac.in](mailto:registrar@nitp.ac.in)  
Website: [www.nitp.ac.in](http://www.nitp.ac.in)

## Important dates for Admission to M. Tech. Program:

S. N.	Admission Activities	Important dates & time.	Days
1	First Advertisement for M. Tech Admission	July 2 <sup>nd</sup> 2010	Friday
2	Issue of Application form & information brochure from NITP office. Application form may be down loaded from website <a href="http://www.nitp.ac.in">www.nitp.ac.in</a>	2 <sup>nd</sup> to 15 <sup>th</sup> July 2010	Friday to Thursday
3	Last date for receipt of Application	July 22 <sup>nd</sup> 2010	Thursday
4	Merit list on Institute Notice Board and Website	July 26 <sup>th</sup> 2010	Monday
5	List of rejected applications on Institute Notice Board and Website	July 26 <sup>th</sup> 2010	Monday
6	Counseling & Admission - I	27 <sup>th</sup> July 2010	Tuesday
7	Spot Counseling & Admission - II (admission against vacant seats for eligible candidates who have already applied/ c reporting on the spot on inter say merit)	2 <sup>nd</sup> Aug 2010	Monday
8	Last date for Admission to M. Tech. Program	11 <sup>th</sup> Aug 2010	Wednesday
9	Academic activities Details		
10	Registration in 1 <sup>st</sup> Semester M. Tech Program	12 <sup>th</sup> & 13 <sup>th</sup> Aug 2010	Thursday & Friday
11	Commencement of Classes	16 <sup>th</sup> Aug 2010	Monday

Candidates must write on top of the envelope “**Admission to M. Tech Program- 2010: Branch – Civil/ Elect/ Mech.**”. Completed application for admission on the prescribed form be sent by Registered post/ Speed post/ Currier service or be deposited in Academics Section.

**The application must reach on or before last date and time for submission of the same to**

**The Assistant Registrar (Admission), Academic Section**  
**National Institute of Technology Patna**  
**Ashok Raj Path, Patna – 800005**

## Important Notice:

- *NIT Patna will not be responsible for any postal delays in receipt of application.*
- *All matters of disputes will be subject to legal jurisdictions of relevant courts at Patna only.*
- *The Institute reserves the right to amend, without any notice any provisions stated in this brochure.*

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## VISION

To contribute to India and the World through excellence in scientific and technical education and research; to serve as a valuable resource for industry and society; and to remain a source of pride for all Indians.

## MISSION

To generate new knowledge by engaging in cutting-edge research and to promote academic growth by offering state-of-the-art undergraduate, postgraduate and doctoral programmes.

To identify, based on an informed perception of Indian, regional and global needs, areas of specialization upon which the Institute can concentrate.

To undertake collaborative projects which offer opportunities for long-term interaction with academia and industry.

To develop human potential to its fullest extent so that intellectually capable and imaginatively gifted leaders can emerge in a range of professions.

## VALUE

- *Academic integrity and accountability.*
- *Respect and tolerance for the views of every individual.*
- *Attention to issues of national relevance as well as of global concern.*
- *Breadth of understanding, including knowledge of the human sciences.*
- *Appreciation of intellectual excellence and creativity.*
- *An unfettered spirit of exploring, rationality and enterprise.*

## ***INTRODUCTION***

The National Institute of Technology Patna (NITP) is the eighteenth National Institute created, by the Ministry of Human Resources Development, Govt. of India upon rechristening the erstwhile Bihar College of Engineering, Patna. This institute is in the process of achieving the status of a centre of excellence to impart higher training research and development in Science, Engineering & Technology. NIT Patna's humble beginning can be traced to 1886 with the establishment of a pleader's survey training school, subsequently elevated to the Bihar College of Engineering, Patna in 1924 at the present site with the introduction of graduate level engineering curriculum. M. Sc. (Engg.) was introduced in 1978. The institute is fully equipped to take up its role as a **Corporate Body** with powers to decide its own academic policy to conduct its own examination and to award its own degrees.

The institution was declared National Institute of Technology on January 24, 2004 and known as "National Institute of Technology Patna". The institute is an autonomous institution under Ministry of Human Resource Development, Govt. of India under NIT Act - 2007. Prior to the enactment of NIT Act, the institution was attached to Patna University for the purpose of examination and award of degree.

The institute offers admission to Under-graduate program and Post-graduate Programme(s) every academic session on the basis of all India competition. It offers B. Tech. degree of four year duration full time courses in Electrical Engineering (ELE), Mechanical Engineering (MEC), Civil Engineering (CIV), Electronics & Communications Engineering (ECE), Information Technology (ITY), Computer Science & Engineering (CSE), and B. Arch degree of five years duration in Architecture; and M. Tech Degree of two years duration in Electrical Engineering, Mechanical Engineering and Civil Engineering with different specialisations. The activities of the Institute are growing at faster rate towards achievements of Global Standard.

The making of an engineering leader requires sustained intellectual alertness, creativity and talent for innovation which must be continuously nurtured to achieve professional competence. The Institute provides pleasant surroundings with an intellectually stimulating campus to its students. The courses are managed by qualified teachers who rely on direct personal contact to disseminate intensive theoretical and practical knowledge to the students. The existing laboratories are being modernized to meet the aspiration & needs of tomorrow. The existing infrastructures provide a conducive environment with an exciting campus life so necessary for professional growth.

### ***Location***

The Institute is situated on the southern bank of river Ganges behind Gandhi Ghat, one of the most important reverence place of Patna. The Institute campus is approximately 8 km from the Patna Junction railway station and 15 km from the Jai Prakash Narayan International Airport, Patna. The entry to the institute is from Ashok Raj Path and it is about 3 KM from Gandhi Maidan. The site map is enclosed for reference

### ***Campus***

The Institute campus is spread over 40 acres and a picturesque river view with numerous historic buildings presenting a spectacle of architectural delight and natural beauty. It is partially residential in nature providing residential facilities to some of its students as well as to the faculty and staffs as per availability. Behind the historic administrative building lies the main academic building, which also houses the Civil Engineering Department and the Information Technology departments. A Central Library building at the entrance of the institute has all possible modern facilities including e-resources. The Electrical and Mechanical Engineering Departments face one another about 200 meters west from the Administrative Building. The Department of Architecture, Electronics & Communication, Computer Science & Engg. and Centre for Water Resources Studies are located in separate buildings 300 meter to the east. Several other facilities like large

lecture theatres with modern equipments & amenities, student's activities centre and auditorium are likely to come up very soon.

The institute has play ground where many National level football and cricket matches arranged in the past when Patna had no stadium. The extra curricular activities include facilities for outdoor & indoor games, boating & rowing, open air theatre and availability of the local chapter of SPICMACAY. While banking facility is available in campus, Post-office and shopping centers are in the near vicinity. NIT Patna is the Institutional member of The Indian Society for Technical Education (ISTE), which is devoted to promotion of quality and standards in technical education.

The institute runs seven essential services in the campus namely 24 hours Electric Supply, suitable drinking water, sanitation and maintenance of cleanliness, security arrangements, and ambulance service for medical emergency, EPBX and Internet facilities. The library and all departments are under local area network and share the different academic/ student information database including with e-Library through PCs available in various departments, office, library and other offices.

### **Under-graduate and Post-graduate Programmes**

S. No.	Degree/Program	Branch of Specialization		Duration
<b>Under Graduate Program:</b>				
1	<b>B. Arch</b>	Architecture	ARC	5 year – Full time
2	<b>B. Tech</b>	Civil Engineering	CIV	4 year – Full time
3		Computer Science & Engineering.	CSE	
4		Electronics & Communication Engineering.	ECE	
5		Electrical Engineering.	ELE	
6		Information Technology	ITY	
7		Mechanical Engineering.	MEC	
<b>Post graduate Program:</b>				
1	<b>M. Tech <i>Elect. Engg.</i></b>	Control System Engineering	CON	2 year – Full time
2		Power System Engineering	POW	
3	<b>M. Tech <i>Civil Engg.</i></b>	Structural Engineering.	STR	
4		Transportation Engineering.	TRS	
5		Water Resources	WRS	
6	<b>M. Tech <i>Mech. Engg.</i></b>	Refrigeration, Air-conditioning & Heat Transfer	RAHT	
7		Thermal Turbo Machinery	TTM	

### **ADMISSION PROCEDURES FOR M. TECH. PROGRAM**

The institute offers Post-graduate Program (M.Tech.) under different disciplines and specializations by various Departments. The details of specialization, Minimum Eligibility criterion and Seat distribution under different department are as detailed below.

The duration of M. Tech. full time Programme is four semester (24 months). The course structure for different department/ specialization is placed at Annexure – II for reference.

Institution Level Counselling for seats under different specialisation under different categories of candidates including Sponsored category candidates shall be conducted by the Institute, as per schedule notified in the information brochure for the program. The eligible candidates are required to apply to get admitted to the M. Tech. programmes in the Institution. Applications for admission of candidates through Institute Level Counselling are invited through an advertisement in the leading newspapers and institute website.

Admission for the M. Tech program against sanctioned seats during current session (2009-10) shall be done by the institute based on GATE Score. However admission to the program during next session is proposed to be taken through Centralized Admission Counselling for M. Tech

program of all NIT's in India from next academic session. The detailed criterion for admission based on GATE score shall be as per Central Admission Counselling Committee.

### **M. Tech. Program – Seats Distribution under different Categories:**

Category wise Seats allocation after providing quota as SC-15%, ST- 7.5% & OBC - 27% in Session 2010-11 is detailed below:

S. No.	Department offering the Program	M. Tech Program/ Specialization	OP	OBC	SC	ST	Total	PH ##	DASA
1	Electrical Engineering	Control System	14	7	4	2	27	1	4
2		Power System	14	8	4	2	28	1	4
3	Civil Engineering	Structural Engg.	14	8	4	2	28	1	4
4		Transportation Engg.	14	7	4	3	28	1	4
5		Water Resources	14	7	5	2	28		4
6	Mechanical Engineering	Thermal Turbo Machines	14	8	4	2	28	1	4
7		Refrigeration, Air conditioning and Heat Transfer	14	7	4	2	27	1	4
<b>Total</b>			<b>98</b>	<b>52</b>	<b>29</b>	<b>15</b>	<b>194</b>	<b>6</b>	<b>28</b>

## PH Category reservation shall be on horizontal basis i.e. may be allowed to any category candidate; however total seats in that category shall same.

**M. Tech program - Sponsored category: Four seats for each specialization) available for admission as per rules of the Institute.**

**DASA: Detailed admission procedure, online application and brochure for the current revised scheme is available on [www.dasanit.org](http://www.dasanit.org) and [www.nitk.ac.in](http://www.nitk.ac.in)**

### **M. Tech. Specializations, Qualification:**

S. No.	Department offering the Program	Program/ Specialization	Disciplines/ branch that are eligible for Admission (In order of preference for admission)	Eligibility Criterion/ Qualification, CGPI/ CGPA, %age Marks etc. #
1.	Electrical Engineering	<b>Control System</b>	(i) Electrical Engg, or Electrical & Electronics Engg, (ii) Instrumentation & Control Engg, or Instrumentation Engg. (iii) Electronics & Instrumentation Engg, (iv) Applied Electronics & Instrumentation Engg (v) Electronics & Communication Engg	(a) B. Tech/ B. E./ B.Sc.(Engg) or equivalent such as AMIE/ Grade IETE degree etc. (b) <b>General/ / Sponsored Category:</b> Minimum 60% marks in aggregate (of all the years/ semesters) or CGPA of 6.75 on a ten point scale. (c) <b>OBC Category:</b> The maximum cut off marks shall be 10% below the cut off marks of General category candidates <sup>1</sup> (d) <b>Relaxation in the eligibility criteria to SC/ ST/ PH candidates:</b> minimum 55% Marks in (of all the years/ semesters) or CGPA of 6.25 on a ten point scale may be permitted. (e) Candidates presently in 7 <sup>th</sup> or 8 <sup>th</sup> semester/ final year may be considered for admission provided they fulfill above criterion and submit final result before start of academic session.
2.		<b>Power System</b>	(i) Electrical Engg or Electrical & Electronics Engg. (ii) Instrumentation & Control Engg. or Control Engg. (iii) Applied Electronics & Instrumentation Engg	
3.	Civil Engineering	<b>Structural Engg.</b>	Civil Engg	
4.		<b>Transportation Engg.</b>	(i) Civil Engg (ii) Transportation Engg	
5.		<b>Water Resources</b>	Civil Engg	
6.	Mechanical Engineering	<b>Refrigeration, Air conditioning and Heat Transfer</b>	(i) Mechanical Engg., (ii) Automobile Engg., (iii) Aeronautical Engg., (iv) Marine Engg	
7.		<b>Thermal Turbo Machines</b>		

# In case of Centralized admission counseling minimum eligibility criteria with respect to Qualifying percentage marks and GATE percentile as stated above may be fixed at same level as of other NITs, if so required.

<sup>1</sup> Vide OM F.No. 1-1/2008-(III)-U.1(A) dated 17<sup>th</sup> October 2008 of MHRD, GOI.



## **Minimum Eligibility Criteria for Admission:**

Admission to Post Graduate program (M. Tech.) will be granted in the Autumn (Odd) semester of each academic session on the basis of the performance at Common all India competitive test known as **Graduate Aptitudes Test in Engineering (GATE)**. The candidate must have

- (i) Passed B. Tech/ B. E. / B. Sc. (Engg) or equivalent examination such as AMIE/ Grade IETE etc. with specialization in relevant branches/ disciplines as specified for different courses.
- (ii) The candidates under different categories must have minimum percentage of marks in aggregate (of all the semesters/ years) or minimum CGPA in 10 point scale (as determined by NIT Patna) in their qualifying examination.
- (iii) Candidates presently in 7<sup>th</sup> or 8<sup>th</sup> semester/ final year may also be considered for admission provided they fulfill above criterion and submit final passing result before start of academic session. If the candidates selected for admission fails to submit passing certificate or his/ her percentage marks in aggregate falls below the minimum requirement, then his/ her admission shall stand cancelled.
- (iv) Admission under different categories shall be made in order of preference of discipline/ branch of specialization on GATE Score of the candidate under different specialization.
- (v) The GATE score certificate may be used by the candidate for one time admission only.
- (vi) Merit list of the candidates based on GATE score/ GATE Percentile shall be prepared for grant of admission. Candidate's Inter-se-merit shall be as per preferential order of Branch/ Specialization at B. Tech/ BE program indicated above. The minimum cut of GATE score notified may be revised by the Admission Counselling committee for M. Tech Program.
- (vii) The minimum percentage cut-off of marks/ CGPA in qualifying examination and cut-off GATE Score Percentile for different categories of candidates is detailed below:

<i>Category of candidate</i>	<i>Minimum % Marks in aggregate/ CGPA (In ten point Scale) in Qualifying Examination</i>	<i>Minimum GATE Score Percentile</i>
General	60% in Aggregate/ CGPA: 6.75	85
OBC	60% in Aggregate / CGPA: 6.75	76.5 #
Sponsored	60% in Aggregate / CGPA: 6.75	85 (if GATE Score is available), else based on interview and/ or written test
SC/ ST/ PH	55% in Aggregate / CGPA: 6.25	60

# As per direction of MHRD, Govt. of India "Maximum Cut-off Marks for OBCs be 10% below the cut-off marks of General category candidates."

## **Reservation of Seats**

At present reservation to SC candidates is 15% and for ST students is 7.5% of the total seats. However, reservation for SC/ ST and Physically handicapped (PH) categories of candidate will be applicable as per Govt. of India existing rules or amended from time to time.

Reservation of seats for candidates under OBC category is being implemented as per the direction of MHRD and Hon'ble Supreme Court orders. The Institute has planned to implement OBC reservation in three phases, i.e. Phase – I: 9% in session 2008-09, Phase – II: 18% in 2009-10 and Phase – III: 27% in session 2010-11.

The candidates claiming reservation under OBC Category are required to produce certificates as per provisions of the OBC Reservation for verification at the time of admission. The OBC candidates are required to produce certificate issued by competent authority stating that his/ her parent's income is below Rs. 2.5 lacs per annum and they (Parents) do not belong to service group as per provisions of creamy layer defined by the Govt. of India and Hon'ble Supreme court orders with respect to OBC reservation.

OBC/ SC/ ST and PH candidates will be required to produce Original certificate issued by competent authority (SDO/ DC/ DM) at the time of counseling, failing which they will not be considered for admission under that category.

The sponsored candidates from industry/ Institution/ organizations of repute (as decided by NIT Patna) shall get preference against seats allocated under General/ Sponsored category for different specialization of the M. Tech program.

**If suitable candidate from Sponsored Category is not available as per merit list for admission or after written test and/ or interview of the candidates no suitable candidate is found for admission, then unfilled seats from sponsored category shall be transferred to general category.**

Any change amendment with respect to reservation shall be informed through Institutional website as and when Government orders for the same are issued.

### ***Medical Examination***

It is expected that all full time candidates (except employed) will have good general physique. He/ She will have to produce on the date of Central Registration certificate to that effect in the prescribed format (copy to be given along with the admission offer letter). The admission is subject to his/her being found medically fit. **In the case of PH candidates' minimum disability should be 40%.**

### ***FULL TIME SPONSORED CANDIDATES***

The institute admits sponsored candidates working in Public Sector Undertakings, Private Ltd. Company or Government Departments or Research/ Development organizations /Educational Institute. Four seats from the general category has been allocated, for sponsored category students in each specialization under different department. Fee structure shall be different for students admitted under this category, and no scholarship shall be payable to such candidates, if they have not been admitted on GATE Score.

The sponsored candidates desirous for admission on the basis of CGPA/ percentage of marks in qualifying examination is required to appear for written test and interview before the selection committee constituted for the purpose, if found suitable then admission is granted.

The admission of Sponsored candidate will be made in order of merit basis in which 70% weightage will be given for qualifying examination marks and 30 percent for performance in written test and/ or interview.

If any sponsored candidate has valid GATE Score then he/ she may be admitted on the basis of GATE Score along with other non-sponsored candidates. However sponsored candidate without GATE Score must fulfill minimum eligibility criterion and must have

- (i) Minimum two years experience as on 1<sup>st</sup> August 2010 from an organization as stated above.
- (ii) Sponsorship certificate needs to be submitted at the time of Interview for admission. "**Sponsorship Certificate**" issued by the employer on their organization's Letter Head, in following format with the application form.

### ***Fee Payable at the Time of Admission***

As per detailed fee structure for M. Tech. program above, the candidate admitted in any discipline/ specialization is required to deposit Tuition fee and Development fee as detailed above. The balance fee shall be payable at the time of registration to the program

- **Rs. 32,800/-** for full time (GATE Score) candidate.
- **Rs. 40,300/-** for full time Sponsored candidate.

Candidates admitted through Institution level counseling are exempted from payment of Admission Processing fee.

## Refund of Fees

Incase any candidate cancels his/her admission or withdraws from the program before the closing date of admission, then fee shall be refunded after deducting Rs. 1000/- as processing fee.

No refund of fees shall be admissible/ permissible to candidate, if he/ she withdraw/ cancelled his/ her admission after last date of admission or after registration to the programme In such cases, only caution money shall be refunded after submission of No Dues from different departments at the end of the semester.

## Registration for the Program/ Semester

All students are required to report for Orientation and Central Registration before the commencement of each semester according to the schedule/procedure notified in advance. The students register themselves for the courses in consultation with the Course Coordinator. The curricula, course structure and course under different specialization including rules governing their academic duties and performance are made known to the students advance by the department(s). In some departments the required performance levels may be higher than those given in the Prospectus. The admitted students must acquire a copy of the departmental norms in such cases.

## FEE & OTHER CHARGES FOR M. TECH. PROGRAMS With effect from Session 2010-11

S. No.	Details of fee under Different Heads of a/c	Amount (in Rs.) To be paid as per periodicity indicated		
		M. Tech	M. Tech (Sponsored)	Remarks
1.	Registration Fee	500	500	Per Semester ##
2.	Tuition Fee	17500	25000	Per Semester
3.	Development Fee	10000	10000	One Time
4.	Examination Fee	650	650	Per Semester
5.	Students Activity Fee	1000	1000	Per annum @
6.	Medical Fee	300	300	Per annum @
7.	Identity Card Fee	100	100	One Time
8.	Admission Processing Fee	500	500	One Time #
9.	Caution Money (Refundable)	2000	2000	Onetime on admission
10.	Course Curricula for B.Tech/ B.Arch/ M. Tech Program	250	250	
	<b>Total Fee Payable on admission</b>	<b>32800</b>	<b>40300</b>	

## - To be paid by all students during registration including students admitted in the 1<sup>st</sup> semester.

@ - To be paid in Autumn (Odd) semester,( i.e. B. Tech/ B. Arch/ M. Tech - 1<sup>st</sup>, B. Tech/ B. Arch - 3<sup>rd</sup>, 5<sup>th</sup>, 8<sup>th</sup> and B. Arch 9<sup>th</sup> Semester.)

# - Applicable for students admitted to B. Tech/ B. Arch/ M. Tech program including students admitted in 1<sup>st</sup> semester through CCB.

Note: SC/ ST Students are required to apply for financial assistance/ scholarship and/ or reimbursement of fee deposited at the Institute from Department of Welfare and Empowerment of respective State Government to which they belong.

## Fee Structure for candidates Admitted under DASA

	Candidates from Other Countries	Candidates from SAARC Countries
Registration Fee & 1 <sup>st</sup> Yr Fee: Non refundable	US\$ 250/ + US\$ 4000/	US\$ 2400/-
Tuition Fee for subsequent Yr:	US\$ 4000/	US\$ 2000/-
Hostel Accommodation and other Expenses	Approx US\$ 800/- per Annum may vary from Institute to institute	

## **GENERAL GUIDELINES & IMPORTANT INSTRUCTIONS REGARDING SUBMISSION OF APPLICATION:**

The selection for all categories of students and for different specialization/ seats is done by the institution through Institution Level Counselling organized centrally. Candidates are required to apply for M. Tech program on prescribed application.

1. The application form is available on Institution website [www.nitp.ac.in](http://www.nitp.ac.in) may be downloaded.
2. Separate application form should be used for each Department and Specialization.
3. The applicant while applying for admission to M. Tech programme of a particular department may, give any number of options/ preferences for the M. Tech Programmes available in that department. However, he/she will be considered only for two options for which he/ she is eligible in the order of preference given. In case a candidate is found to have filled more than one form and each such form contains different order of preferences for a particular department the decision of the department/ admission committee in accepting and/or rejecting any one or more of the forms will be final.
4. The minimum eligibility criteria indicated above for each programme is only an enabling clause. The Department may fix higher criteria at the time of short listing keeping in view the number of candidates etc. The applications will be scrutinized by the admission committee/ Academic Section. The Academic Section will call an adequate number of eligible candidates for selection of the candidate.
5. The selection of Physically Handicapped candidates will be held centrally as per rules and direction of Govt. of India.
6. Application incomplete, in any respect, is liable to be rejected. The decision of the admission committee in this respect shall be final.
7. No column should be left blank. Write not applicable against a column if the same does not apply to you.
8. Tick () the relevant box wherever provided.
9. No TA/ DA shall be paid to the candidates coming for M. Tech admission or to attend written test/ interview.
10. **Sponsored candidates must submit NOC/ Sponsorship Certificate from their employer at the time of interview.**
11. **Filling of false information will lead to Cancellation of Admission.**
12. **Admission Application Fee must accompany Bank draft of Rs. 500/- for General/ OBC Category and Rs. 300/- for SC/ ST/ PH category in favour of "NATIONAL INSTITUTE OF TECHNOLOGY PATNA" payable at Patna.**
13. The Bank draft No and date of issue must be mentioned by the candidate in the appropriate column while submitting the completed application form.
14. Candidate must write on top of the envelope "**Admission to M. Tech Program/ Branch – Civil/ Elect/ Mech. - 2010**" and be sent by Registered post/ Speed post/ Courier service. The filled in application form with self attested photocopies of the relevant documents may also be submitted directly in Academic Section by hand/ messenger.
15. **Application for admission must reach to The Assistant Registrar (Admission), Academic Section, National Institute of Technology Patna, Patna – 800005 by last date as notified.**
16. **Application for admission shall not be received by hand or at Institution Counter.**
17. National Institute of Technology Patna reserves the right to make any change in any provisions declared in this information procedure. In case Ministry of Human Resource

Development, Govt. of India or any other Competent Authority makes any changes in the admission procedure/ reservation policy or any other matter related to admission shall be binding on all and shall be applicable with effect from the approval of the senate and BOG of NIT Patna.

18. Self attested Photocopies of following documents must be enclosed and Original Certificates/ Documents must be produced at the time of admission for verification : -

(i)	Demand Draft for Admission/ Application Fee of amount as per information Brochure	Must be submitted with application form
(ii)	GATE Score/ Rank Card	
(iii)	Certificate of Category (OBC/ SC / ST/ PH), if applicable, Issued by the competent authority	
(iv)	Income certificate for OBC candidates stating the Candidate's Parent do not belong to Creamy Layer as per directive of the MHRD	
(v)	Certificate for Physically handicapped	
(vi)	Qualifying Examination Marks Sheet/ Grade Card	
(vii)	Four Photographs identical to the one Pasted on the application form	Must be submitted at the time of admission Counseling
(viii)	Class X (High School) Board Certificate as proof of date of birth	
(ix)	Qualifying Examination Passing Certificate	
(x)	Migration Certificate from the University/ Deemed University/ Institute Last attended	
(xi)	Tuition fee and Development fee Demand Draft as per information Brochure	

## **FINANCIAL ASSISTANCE TO M. Tech. STUDENTS**

A scheme for the award of Teaching/ Research Assistantship for providing financial assistance to the students exists. In terms of this scheme, students admitted to M. Tech. Programmes on full-time basis are considered for the award of 'Half-time' Research/ Teaching Assistantship under the AICTE norms provided the fund is granted by AICTE for the purpose. The maximum duration for which this Assistantship can be awarded to M. Tech is 4 semesters. In return, the student renders 8 hours per week of assistance outside his normal academic work as assigned by the Department. In addition they are given contingency grant provided the fund is granted by AICTE in accordance with the Institute rules. ONLY FULL-TIME (OTHER THAN SPONSORED STUDENTS) WHO HAVE QUALIFIED GATE ARE ELIGIBLE FOR ASSISTANTSHIP. In the first instance the Assistantship is awarded only for one semester. Thereafter, continuation of the Assistantship during each semester is contingent upon satisfactory academic performance and satisfactory performance in the discharge of responsibilities assigned under the scheme. For this purpose an SGPA of not less than 7.00 (6.75 in the case of SC/ ST/ PH) at the end of the semester is treated as satisfactory academic performance.

## **HOSTEL ACCOMMODATION**

The Institute has limited number of seats in three boys' hostels and one girls' hostel. Each hostel is self-contained with amenities such as a reading room, an indoor games room, a lounge and a dining hall with mess.

***Due to limited seats in hostels at present hostel accommodation to M. Tech students are not provided. Therefore, candidates admitted are required to make their own boarding and lodging arrangement. Room and seats on rent/ shared accommodations near to the Institute are available for the students.***

## **CIVIL ENGINEERING DEPARTMENT**

Civil Engineering Department is one of the oldest departments of NIT, Patna. This department was found at the inception of the Bihar College of Engineering, which has now been reconstituted as NIT, Patna. The department offers undergraduate degree as well as Masters degree. The master's degree is given in the specializations on Structural Engineering, Transportation Engineering and Water Resources Engineering. It also has a separate center known as Center for Water Resources Studies, which is well known for its research and development in the field of Water Resources Engineering.

The department has Mechanics, Material Testing, Concrete, Water Resources, Hydraulics, Fluid Mechanics, Environmental Engineering and Surveying Laboratories with all latest equipment need for research and development.

Civil Engineering Department keeps a close interaction with the industry and also provides key consultancies to various government and private organization across the country and has a corpus fund of above one crore from this activity alone.

Civil Engineering Department keeps a close interaction with the industry and also provides key consultancies to various government and private organization across the country and has a corpus fund of above one crore from this activity alone. The department generates fund of approx. Rs. 5.0 lakhs per month from non-routine testing and consultancy projects for the institute.

The students of CE Department get placement in companies such as RITES, Gammon India Ltd., IRCON, Punj Lloyd, EIL etc.

### **Lab Infrastructure:**

<b>Name of Lab</b>	<b>List of Major Equipment/ Computers/ Software</b>
Concrete Lab	Compression Testing Machine, Brick Testing Machine, Flexure Testing, Soundness, Machines used for Mix Design etc.
Material Testing Lab	Universal Testing Machine, Hardness, Impact, Torsion Testing Machine, Deflection Measurement etc.
Mechanics Lab	Differential Pulley Block, Worm Wheel, Screw Jack, MI, Reaction at Support etc.
Fluid Mechanics and Hydraulics Lab	Hydraulic Bench for flow visualization, orifice meter, venture meter, Pelton Turbine, Various types of Pumps and Turbine, Viscometer etc.
Transportation Lab	Ben Kelman Beam, Bump integrator, axial load survey, Marshal Stability Test Apparatus, CBR, Field Moisture Density Equipment etc.
Environmental Engineering Lab	Ion Analyzer, AAS, BOD Incubator, Muffle Furnace, Oven, Centrifuge etc.
Soil Mechanics and Foundation Engineering Lab	CBR, Triaxial Testing Apparatus, Direct Shear Test Apparatus, Hydrometer etc.
Geology Lab	Collection of Rock Samples
Surveying Lab	Total Station, Theodolite, Dumpy level etc.
Water Resources Lab	Complete Weather Station, Hydraulic Jump and Hump, etc

### **Projects and Dissertation:**

- Up gradation of Soil Mechanics Lab (Sponsored);
- Water Quality Test Lab Project (Sponsored);
- BRNS Project (Sponsored): "Development of Integrated Software for Design Basis Flood for a Nuclear Power Project Site".
- Over 60 M. Tech. and over 10 Ph.D. Dissertations have been successfully completed by Civil Engineering Department.

## **On going Research Projects:**

- *Stability Analysis considering effects in static and dynamic condition for earth dams including instrumentation*, Y.P. Singh under Dr. K.S.P. Singh
- *“Environmental impact of rives Ganga in State of Bihar with special emphasis to effects near Patna Town”*, A. Singh under Dr. K.S.P. Singh.
- *“Earthquake Resistant Design of Concrete Gravity dam”*, Chandrashekhar Singh under Dr. V. Singh
- *“Rainfall Runoff Modeling”*, Amit Kumar Sinha under Dr. V. Singh.
- *“Integrated water resources management of humid alluvial plains: Case study of Bagmati Basin Complex”*, Ashok Kumar under Dr. T. Prasad.
- *“Optimum Concrete Pavement Concrete Mix Design”*, Kumari Anima under Dr. U.K. Srivastava.
- *“Optimization of Road Network of Patna Urban Area fro 2020 AD”*, Md. Abdullah Sharif under Prof. E.A. Quadri.
- *“Integrated Water Resources Management for Regional Economic Development”*, Rajesh Gupta under Dr. L.B. Roy
- *“Suitability Analysis of Bitumen vis-à-vis Strength criteria of Bitumen Mixes based on Tri-axial Test/ Marshall Stability Test at atmospheric Temp conditions.”*, Rajeev Kumar under Dr. S. Kumar.
- *“Needs and strategies for participatory irrigation management in Bihar”*, I.C. Thakur under Dr. L.B. Roy
- *“Finite Element Analysis of R.C. Structural Members”*, P.N. Thakur under Dr. S.K. Sinha.
- *“Land use transportation model for medium size cities (A case study of Patna Town),* Malti Srivastava under Dr. S. Kumar.
- *“Bi-axial RCC Columns”*, Baboo Rai under Dr. S.K. Sinha

## **DEPARTMENT OF MECHANICAL ENGINEERING**

Department of Mechanical Engineering of NIT Patna (erstwhile B.C.E. Patna) started in 1948 with undergraduate programme. Post graduate programme in Mechanical Engineering was started in 1978 with specialization in “Thermal Turbomachines” and “Refrigeration, Air-conditioning and Heat Transfer”. At UG level yearly system was followed while in PG programme, semester system was followed. Before 2007-08, for undergraduate programme B.Sc. Engg. degree and for Post Graduate programme M.Sc. Engg. degree were awarded to students by Patna University. Ph.D. programme are also running but presently it is on part time basis. Now onwards from 2007-08 regular Ph.D. programme will run in the Department. From the academic year 2007-08 department is going to follow semester system and degree will be awarded at UG and PG level in B. Tech. and M. Tech. respectively department is well equipped with the adequate facilities for teaching of fundamentals as well as for carrying out research activity. The department has dedicated and able faculty who are capable of taking up any type of research and developmental work.

The department has well equipped Refrigeration and Air conditioning, Heat Transfer, Dynamics of Machinery and Control & measurement lab. The department has all modern facility for CAD/ CAM application and separate Metrology Lab.

Department of Mechanical Engineering is actively involved in interaction with public and private sector industry/ Institutions such as BRENDA, IE(India), Patna University Industrial Safety Management course etc.

## **DEPARTMENT OF ELECTRICAL ENGINEERING**

The Department of Electrical Engineering was established in 1945 under Patna University with an intake of 30 students leading to Bachelor of Engineering degree of four year duration. The four year course was later changed to five year integrated course in 1960 and it continued up to 1972. Again four year course was introduced in 1972 with the same intake capacity of 30 students. The intake was increased from 30 to 40 students in 2005-06 session and further in 2006-07 the intake capacity has been increased to 60 students.

In the year 1978 AICTE approved Post Graduate (PG) course leading to M. Sc. (Engg) Degree in two specializations: (i) Power System Engineering and (ii) Control System Engineering with an intake capacity of 10 in each specialization. The intake in PG program was further increased to 18 students per specialization in 2004-05.

The Microprocessor Laboratory and Power electronics laboratory were setup to meet the requirement of course curriculum and research activity. The advancement and application of electronics and microcomputer in the field of electrical engineering, necessitated a major revision of the syllabus for the UG program in 1977. A course in Microprocessor was introduced along with many subjects in electronics leading to orientation required for the modern technology, such as Analog Electronics, Digital Electronics, Introduction to Communication and Digital Signal Processing.

The laboratory under this department includes Electrical Machines, Basic Electrical Engg., Network Theory, Signals & System, Instrumentation, High Voltage Engg., Microprocessor, Switchgear & protection labs. All labs are equipped with machines and instruments to meet the requirement of UG and PG course Curriculum as well as research & development work being under taken by students and faculty.

The department has a Computer Lab with all hardware and software facilities to meet the requirements of system modeling and analog and digital circuit simulation. The department has ORCAD software for simulation, PCB layout, MATLAB software for modeling, simulation of signals and systems and ETAP for study of power distribution and fault analysis. The department has all computers under local area network. The wireless LAN facilitates access of software from any place in the campus by the students and faculties.

The electrical engineering department has well qualified faculty, may with Ph. D and M. Tech degree with specialization in the field of electrical power, control system and microcomputer based instrumentation & control. The department has well qualified panel of visiting faculty from academics and industry. They visit to the department at regular interval to deliver expert lectures and discuss recent trends in the field of Electrical Engg, Power system - generation, transmission and distribution, Thyristorised controlled electrical drives used in industry, microcomputer applications in instrumentation and control etc.

In recent past, the faculty and students of the department have many publications in journals and conferences (Approx. Forty). Many books on different electrical engineering subjects have been authored by the faculties of the department. Till date the department has produces five Ph. Ds and three candidates are enrolled under Patna University.

The aim of the department is to equip the different labs for modern course curriculum in the field of engineering & technology. In order to carryout research, development and consultancy work in active participation with the industry. The department is in process of establishing labs for computer based process control and digital signal processing. The high voltage lab is likely to be upgraded soon.



## FACULTY PROFILE:

	Name	Designation	Qualification	Area of Specialization
Department of Civil Engineering	Dr. K.S.P. Singh	Professor	Ph.D.	Soil Mechanics & Foundation Engineering
	Dr. Surendra Kumar	Professor & Head	Ph. D	Urban Planning & Development
	Dr. L.B. Roy	Assoc. Prof.	Ph. D	Water Resources Engineering and Geo Technical Engg.
	Dr. Vivekanand Singh	Assoc. Prof.	Ph. D	Hydraulic & Water Resources Engineering
	Mr. Sanjeev Kr. Sinha	Assoc. Prof.	M. Tech.	Soil Mechanics
	Dr. S. S. Mishra	Assoc. Prof.	Ph. D.	Structural Engineering
	Mr. S.K. Singh	Asstt. Prof.	B. Tech	-
	Mr. Sanjay Kumar	Asstt. Prof.	B. Tech	-
	Dr. N. S. Maurya	Asstt. Prof.	Ph. D	Environmental Engineering
	Mr. Anshuman Singh (On Study Leave)	Asstt. Prof.	M. Tech.	Environmental Engineering
	Mr. S.K. Suman	Asstt. Prof.	M. Tech	Transportation Engineering
	Mrs. Sunita Kumari	Asstt. Prof.	M. Tech	Geotechnical Engineering
	Mrs. Reena Singh	Asstt. Prof.	M. Tech.	Environmental Engineering
	Mr. S.K. Murmu	Asstt. Prof.	M. Tech.	Water Resources Engineering
	Mr. Baboo Rai	Asstt. Prof.	M. Tech.	Structural engg.
	Dr K. P. Singh	Professor(Contractual)	Ph. D	Transportation Engg.
	Dr Y Prasad	Professor(Contractual)	Ph. D	Structural Engg.
	Dr U K Srivastava	Professor(Contractual)	Ph. D	Structural Engg.
Dr S K Sinha	Professor(Contractual)	Ph. D	Structural Engg.	
Department of Mechanical Engineering	Prof Narendra Kumar	Professor	M. Tech	Thermal Engg
	Prof. Sudarshan Singh	Professor & Head	Ph.D.	Thermal Engg
	Prof. S. J. Hasnain	Professor	M. Tech	Design Engg
	Prof. S.K. Singh (on lien)	Professor	Ph.D.	Thermal Turbo Machine
	Mr. S.S. Prasad (On Study Leave)	Assoc. Prof.	M Tech	Design Engg
	Dr. S.K. Verma	Assoc. Prof.	Ph. D.	Thermal Engg
	Dr. Om Prakash	Assoc. Prof.	Ph.D.	Thermal Engg, Power Plant Engg., Heat Transfer
	Dr. Amar Nath Sinha	Assoc. Prof.	Ph.D.	Manufacturing
	Mr. M.N. Pandey	Asstt. Prof.	M. Sc. Engg	Thermal Engg
	Mr. Amit Kumar	Asstt. Prof.	M. Tech	CIDM
	Mr. Shahid Mahmood	Asstt. Prof.	M. Sc. Engg	Ref., Air Cond. & Heat Transfer
	Mr. Arun Kumar	Asstt. Prof.	M. Tech	Thermal Engg.
	Mr. Anil Kumar Das	Asstt. Prof.	M. Tech	Manufacturing Science
	Dr. S. N. Sinha	Professor(Contractual)	Ph. D.	Thermal Engg
	Dr S. P. Sinha	Professor(Contractual)	Ph. D.	Thermal Engg
Dr R. K. Jha	Professor(Contractual)	Ph. D.	Thermal Engg	
Prof N K Prasad	Professor(Contractual)	M Tech	Machine Design	
Dr. S. N. Lal	Professor(Contractual)	Ph. D.	Thermal Engg	
Department of Electrical Engineering	Dr. Girish Kumar Choudhary	Professor& Head	Ph. D	Power System & Control
	Dr. Madan Mohan Choudhary	Professor	Ph. D	Power System & Control
	Dr. Uday Shankar Triar	Professor	Ph. D	Microcomputer application, Power Electronics, Instrumentation. & Control
	Mr. Vidya Sagar	Assoc. Prof.	M. Tech	Electronics & Communication
	Mr. Anil Kumar Sahani	Assoc. Prof.	M. Tech	Power System & Control
	Mr. Ramesh Kumar	Assoc. Prof.	M. Tech	Microprocessor & control
	Mr. Ravindra Kumar	Assoc. Prof.	M. Tech	Electronics & Communication
	Dr. Sambhu Nath Verma	Asstt. Prof.	Ph. D	Power System
	Mrs. Jayanti Chudhary	Asstt. Prof.	M. Tech	Power Electronics & Drives Control
	Mr. Alok Ranjan	Asstt. Prof.	M. Tech.	Power System
	Dr. H. K. Singh	Professor (Contractual)	Ph. D	Power Electronics & Drive control
	Mr. Abinash Chandra Sinha	Professor (Visiting)	M. Tech	Power system
	Dr. Rajendra Prasad	Professor (Contractual)	Ph. D	Instrumentation & Control system
Mr. M. H. Imam	Professor (Visiting)	M. Tech, MBA	Electrical Power and Management	
Mr Nasir Jamal	Professor (Visiting)	M. Tech	Power system	

## ANNEXURE – I

### Academic Calendar 2010-11

ACTIVITY	PROGRAM	SEMESTER	Academic Activity dates	REMARKS
<b>AUTUMN (ODD) SEMESTER Session 2010-11</b>				
Program Registration	B. Arch./ B. Tech	1 <sup>st</sup> Semester	To be done along with Physical reporting	Registration Slip to be distributed: orientation program
	B. Arch/ B. Tech	All Semesters (Except 1 <sup>st</sup> Sem)	22 <sup>nd</sup> & 23 <sup>rd</sup> July 2010 (Thu- Fri)	Late Registration with fine allowed on next Three working days from last date of registration
	M. Tech.	3 <sup>rd</sup> Semester 4 <sup>th</sup> Sem	22 <sup>nd</sup> & 23 <sup>rd</sup> July 2010 (Thu- Fri)	
	M. Tech.	1 <sup>st</sup> Semester	12 <sup>th</sup> & 13 <sup>th</sup> Aug 2010 (Thu & Fri)	
Start of Classes	B. Arch/ B. Tech./	All Semesters (Except 1 <sup>st</sup> Sem)	26 <sup>th</sup> July 2010 (Mon)	From Next Working Day After Registration
Orientation Program	B. Arch / B. Tech	1 <sup>st</sup> semester	20 <sup>th</sup> Jul 2010 (Tues)	
Start of Classes	B. Arch / B. Tech	1 <sup>st</sup> semester	21 <sup>st</sup> Jul 2010 (Wed)	
	M. Tech		16 <sup>th</sup> Aug 2010 (Mon)	
Freshers' Welcome	B. Arch / B. Tech	1 <sup>st</sup> semester	10 <sup>th</sup> sep 2010 (Fri)	
Mid Semester Examinations	B. Arch/ B. Tech./ M. Tech	All Semesters	20 <sup>th</sup> to 28 <sup>th</sup> Sep 2010 (Tues to Wed)	
End of Regular Classes	B. Arch/ B. Tech./ M. Tech	All Semesters	19 <sup>th</sup> Nov 2010 (Fri)	
Extra make up Classes	B. Arch/ B. Tech./ M. Tech	All Semesters	22 <sup>nd</sup> Nov to 24 <sup>th</sup> Dec 2010 (Mon - Wed)	Attendance record and Sent up list to be notified by the Department(s)
End Semester Exam	B. Arch/ B. Tech./ M. Tech	All Semesters	26 <sup>th</sup> Nov to 10 <sup>th</sup> Dec 2010 (Fri -Fri)	<b>Including Practical</b>
Submission of Grades	B. Arch/ B. Tech./ M. Tech	All Semesters	1 <sup>st</sup> Dec 2010 (Wed)	Last date
Dissertation Pre-submission Seminar/ Viva Voce	M. Tech.- Dissertation	3 <sup>rd</sup> Sem and 4 <sup>th</sup> Sem	22 <sup>nd</sup> to 24 <sup>th</sup> Nov 2010 (Mon - Wed)	<i>M. Tech student having Registration Continuation beyond 4<sup>th</sup> semester of the Program as per rules are also eligible</i>
Dissertation Examination	M. Tech	4 <sup>th</sup> Sem	13 <sup>th</sup> to 17 <sup>th</sup> Dec 2010 (Mon – Fri)	
PEC Meeting	B. Arch./ B. Tech	All Semesters	27 <sup>th</sup> Dec 2010 (Mon)	
	M. Tech	All Semesters	28 <sup>th</sup> Dec 2010 (Tues)	
Publication Of Result	B. Arch./ B. Tech	All Semesters	28 <sup>th</sup> Dec 2010 (Tues)	
	M. Tech	All Semesters	28 <sup>th</sup> Dec 2010 (Tues)	
Inter Semester Break	B. Arch/ B. Tech/ M. Tech	All Students	11 <sup>th</sup> to 19 <sup>th</sup> Dec 2010	
<b>SPRING (EVEN) SEMESTER Session 2010-11</b>				
Program Registration	B. Arch/ B. Tech/ M. Tech	All Semesters	20 <sup>th</sup> & 21 <sup>st</sup> Dec 2010 (Mon – Tues)	Late Registration with fine allowed till next Three working days from last date of registration
	M. Tech.	2 <sup>nd</sup> Semester 2009 Batch	20 <sup>th</sup> & 21 <sup>st</sup> Dec 2010 (Mon – Tues)	
Start of Classes	B. Arch/ B. Tech./ M. Tech	All Semesters	22 <sup>nd</sup> Dec 2010 (Wed.)	From Next Working Day After Registration
NITP Tech Fest		19 <sup>th</sup> to 21 <sup>st</sup> Jan 2011 (Wed to Fri)		Classes shall remain Suspended
Annual Sports & Athletic Meet and Cultural Festival		22 <sup>nd</sup> to 27 <sup>th</sup> Jan 2011 (Sat-Thu)		
NITP Foundation Day		28 <sup>th</sup> Jan 2011 (Fri)		Classes shall remain Suspended
Mid Semester Examinations	B. Arch/ B. Tech./ M. Tech	All Semesters	8 <sup>th</sup> to 17 <sup>th</sup> Mar 2011 (Tues - Thu)	<b>Holi Festival on 19<sup>th</sup> Mar 2011.</b>
End of Regular	B. Arch/ B. Tech./	All Semesters	22 <sup>nd</sup> April 2011 (Fri)	

<i>ACTIVITY</i>	<i>PROGRAM</i>	<i>SEMESTER</i>	<i>Academic Activity dates</i>	<i>REMARKS</i>
Classes	M. Tech			
Extra make up Classes	B. Arch/ B. Tech./ M. Tech	All Semesters	25 <sup>th</sup> to 27 <sup>th</sup> April 2011 (Mon - Wed)	Attendance record and Sent up list to be notified by the Department(s)
End Semester Examinations	B. Arch/ B. Tech./ M. Tech	All Semesters	29 <sup>th</sup> April to 13 <sup>th</sup> May 2011 (Fri to Fri)	<b>Including Practical</b>
Dissertation Pre-submission Seminar/ Viva Voce	M. Tech.- Dissertation	4 <sup>th</sup> Sem	Up to 10 <sup>th</sup> May 2011 (Tue)	
Project Viva Voce	B. Tech/ B. Arch.	8 <sup>th</sup> Sem & 10 <sup>th</sup> Sem respectively	Up to 20 <sup>th</sup> May 2011 (Fri)	
Dissertation submission <i>Last date:</i>	M. Tech.-	4 <sup>th</sup> Sem	27 <sup>th</sup> May 2011 (Fri)	<i>No further Dissertation may be accepted</i>
Dissertation Examination	M. Tech.	4 <sup>th</sup> Sem	Up to 10 <sup>th</sup> June 2011 (Fri)	Date may change as per examiner's Confirmation
Summer Break	All Program	For all Students	<b>14<sup>th</sup> May to 10<sup>th</sup> July 2011</b>	Except final Semester Students
Summer Training	B. Tech	6 <sup>th</sup> Semester	Four/ Six weeks Industrial/ Vocational Training during Summer break	
Submission of marks in Performa - V	B. Arch/ B. Tech./ M. Tech	All semesters	2 <sup>nd</sup> May 2011 (Mon)	Except Project & Dissertation
Submission of final Grades for project	B. Arch/ B. Tech	10 <sup>th</sup> Sem & 8 <sup>th</sup> Sem respectively	24 <sup>th</sup> May 2011 (Tue)	
PEC Meeting	M. Tech	(except 4 <sup>th</sup> semester)	26 <sup>th</sup> May 2011 (Thu)	
	B. Arch./ B. Tech	All semesters	26 <sup>th</sup> May 2011 (Thu)	
Publication of Result	B. Arch./ B. Tech	All Semester	27 <sup>th</sup> May 2011 (Fri)	
	M. Tech	2 <sup>nd</sup> Semester	27 <sup>th</sup> May 2011 (Fri)	
Summer Quarter:	Course registration	All Courses	<b>30<sup>th</sup> May 2011 (Tue)</b>	Courses offered shall be as per Regulation of Summer Quarter Only
	Start of Class	All Courses	<b>1<sup>st</sup> June to 8<sup>th</sup> July 2011</b>	
Special Examination	B. Arch/ B. Tech./ M. Tech	All Semesters	11 <sup>th</sup> to 18 <sup>th</sup> July 2011 (Mon- Mon)	
Answer book Evaluation			19 <sup>th</sup> & 20 <sup>th</sup> July 2011(Tue & Wed)	
PEC meeting:	B. Arch/ B. Tech./ M. Tech.	All Semesters	21 <sup>st</sup> Jul 2011 (Fri)	<b>(Special Examination)</b>
Special Examination results	B. Arch/ B. Tech./ M. Tech.	All Semesters	22 <sup>nd</sup> Jul 2011 (Fri)	
M. Tech Dissertation Result	M. Tech.	4 <sup>th</sup> Semester	22 <sup>nd</sup> Jul 2011 (Fri)	
Ph. D Course Result	Ph. D.	1 <sup>st</sup> & 2 <sup>nd</sup> Sem	22 <sup>nd</sup> Jul 2011 (Fri)	
Convocation	B. Tech, B. Arch and M. Tech	<b>Passing Session 2010-11</b>	September/ October 2011	
<b>AUTUMN (ODD) SEMESTER Session 2011-12</b>				
Program Registration	B. Arch/ B. Tech/ M. Tech	All semesters (Except 1 <sup>st</sup> Sem)	<b>25<sup>th</sup> &amp; 26<sup>th</sup> July 2011 (Mon-Tue)</b>	Except 1 <sup>st</sup> semester
	B. Arch/ B. Tech/ M. Tech	1 <sup>st</sup> Semester	As per CCB -2012/ and M. Tech Common admission Schedule	
Start of Classes	B. Arch/ B. Tech./ M. Tech	All Semesters (Except 1 <sup>st</sup> Sem)	<b>27<sup>th</sup> July 2011 (Wed)</b>	

## ANNEXURE - II

### M. Tech Program Course & Credits requirement for Award of Degree

Program	Semesters	Courses	Credit to be offered
M. Tech. in  Elect Engg./ Civil Engg./ Mech. Engg.  with different Specializations	1 <sup>st</sup>	Core Course	20 to 25
	2 <sup>nd</sup>	Core and Electives Course	20 to 25
	<i>Minimum Credits to be earned at the end of 2<sup>nd</sup> semester to be eligible to start Dissertation Work</i>		45
	3 <sup>rd</sup>	Seminar and Dissertation (To be continued in 4 <sup>th</sup> semester)	10
	4 <sup>th</sup>	Seminar and Dissertation	15
	<i>Minimum Credits to be earned at the end of 4<sup>th</sup> semester to be eligible for award of Degree with minimum CGPA of 6.0</i>		70

### Course Structure for M. Tech (Elect. Engg.)

Program Code	Semester	Course Code	Subject	L	T	P	Credit
EEPG	1		Core Subject - I	3	0/1	0/3	4/5
EEPG	1		Core Subject - II	3	0/1	0/3	4/5
EEPG	1		Elective - I	3	0/1	0/3	4/5
EEPG	1		Elective - II	3	0/1	0/3	4/5
EEPG	1		Elective - III	3	0/1	0/3	4/5
			<b>Total</b>	<b>16</b>	<b>5</b>	<b>3</b>	<b>20/25*</b>
EEPG	2		Core Subject - III	3	0/1	0/3	4/5
EEPG	2		Core Subject - IV	3	0/1	0/3	4/5
EEPG	2		Elective - V	3	0/1	0/3	4/5
EEPG	2		Elective - VI	3	0/1	0/3	4/5
EEPG	2		Elective - VII	3	0/1	0/3	4/5
			<b>Total</b>	<b>16</b>	<b>5</b>	<b>3</b>	<b>20/25*</b>
<i>Total Minimum Credit offered combining 1<sup>st</sup> &amp; 2<sup>nd</sup> semester will not be less than 45</i>							
EEPG	3	EE 2391	Seminar	0	0	3	2
EEPG	3	EE 2390	Dissertation (To Continue in 4 <sup>th</sup> Semester)	0	0	12	8
EEPG	3		<b>Total</b>				<b>10</b>
EEPG	4	EE 2493	Seminar	0	0	3	2
EEPG	4	EE 2494	Dissertation	0	0	20	13
EEPG	4		<b>Total</b>				<b>15</b>

### Core Subjects (Choose any two in 1<sup>st</sup> and 2<sup>nd</sup> Semester) (2007 Batch)

S. N.		Course Code	Course Title	L	T	P	Credits
1	Specialization : Control System	EE 2x10	Power Electronics	3	0	3	5
2		EE 2x16	Modern Control Theory	3	1	0	4
3		EE 2x20	Digital Control System	3	1	0	4
4		EE 2x21	Stochastic Process	3	1	0	4
5		EE 2x22	State Estimation	3	1	0	4
6		EE 2x23	Optimal Control Theory	3	1	0	4
7		EE 2x24	Non-linear Control System	3	1	0	4
8		EE 2x25	System Identification	3	1	0	4
9		EE 2x26	System Modeling and Model Order Reduction Technique	3	1	0	4
10		EE 2x35	Control System Design	1	0	3	3

S. N.		Course Code	Course Title	L	T	P	Credits
11		EE 2x47	Industrial Drives & Control	3	1	0	4
1	Specialization : Power System	EE 2x10	Power Electronics	3	0	3	5
2		EE 2x15	Power System Design	1	0	3	3
3		EE 2x31	Computer Aided Power System Analysis	3	1	0	4
4		EE 2x32	Advanced Electrical Machine	3	1	0	4
5		EE 2x34	EHV Power Transmission	3	1	0	4
6		EE 2x39	Modern Power System Operation & Control	3	1	0	4
7		EE 2x46	High Voltage Engineering	3	0	3	5
8		EE 2x47	Industrial Drives & Control	3	1	0	4
9		EE 2x48	HVDC Power Transmission	3	1	0	4
10		EE 2x49	Power System Dynamics	3	1	0	4
11		EE 2x50	Power System Protection	3	0	3	5
12		EE 2x51	Power Plant Engineering	3	1	0	4
13		EE 2x53	Power System Planning & Reliability	3	1	0	4

**Elective Subject (Choose any three in each 1<sup>st</sup> and 2<sup>nd</sup> Semester) core subjects can also be taken as elective subject if not offered as core subject earlier. (2007 Batch)**

S. N.	Course Code	Course Title	L	T	P	Credits
1	CS 2x01	Object Oriented Programming	3	0	3	5
2	CS 2x06	Data Base System	3	1	0	4
3	CS 2x14	Computer Networks	3	0	3	5
4	CS 2x28	Advance Computer Architecture	3	1	0	4
5	EC 1x09	Electronic Instrumentation	3	0	3	5
6	EC 2x08	Intelligent Instruments	3	0	3	5
7	EC 2x13	Digital Signal Processing	3	0	3	5
8	EC 2x71	VLSI Design	3	1	0	4
9	EE 2x10	Power Electronics	3	0	3	5
10	EE 2x18	Microprocessor & Microcontrollers	3	0	3	5
11	EE 2x35	Control System Design	3	0	3	5
12	EE 2x37	Computer Aided Machine Design	3	0	3	5
13	EE 2x39	Modern Power System Operation & Control	3	1	0	4
14	EE 2x41	Fuzzy Logic Control	3	1	0	4
15	EE 2x42	Neural Network System	3	1	0	4
16	EE 2x43	Switched Mode Power Converter	3	0	3	5
17	EE 2x45	Microcontroller & its Application	3	0	3	5
18	EE 2x47	Industrial Drives & Control	3	1	0	4
19	EE 2x62	Fuzzy Logic Design	3	0	3	5
20	EE 2x64	Active Network	3	1	0	4
21	EE 2x66	Advanced Microprocessor	3	0	3	5
22	EE 2x69	Computer Aided Control System Design	3	0	3	5
23	EE 2x70	Neural Network and Application	3	0	3	5
24	MA 2x10	Applied Mathematics	3	1	0	4
25	MA 2x11	Operational Research	3	1	0	4
26	ME 2x33	Robotics and Robot Applications	3	1	0	4

## Course Structure for M. Tech (Civil Engg)

Program Code	Semester	Course Code	Course Title	L	T	P	Credits
CEPG	1		Core Subjects – <i>five Papers from the list of Core Subjects</i>	3	1	0	4 x 5
CEPG	1	CE 2268	Civil Engg Lab –I	0	0	4	3
CEPG	2		Elective subjects as per specialization – <i>five papers from the list of Elective subjects as per specialization</i>	3	1	0	4 x 5
CEPG	2	CE 2269	Civil Engg Lab – II (as per specializations of the students)	0	0	4	3
CEPG	3	CE 2318	Seminar	0	0	3	2
CEPG	3	CE 2319	Dissertation (to continue in 4 <sup>th</sup> Semester)	0	0	12	8
CEPG	4	CE 2420	Seminar	0	0	3	2
CEPG	4	CE 2421	Seminar & Dissertation	0	0	20	13

S. No	Specialization	Sem	Course Code	Course Title	L	T	P	Credits
<b>M. Tech. (Civil Engg.) CORE SUBJECTS (Compulsory)</b> (20-25 Credits to be taken)								
1.	Core	1	CE 2101	System Analysis and Optimization Techniques	3	1	0	4
2.	Core	1	CE 2102	Construction Technology	3	1	0	4
3.	Core	1	MA 2106	Advance Numerical Methods and Computational Techniques	3	1	0	4
4.	Core	1	MA 2107	Probability and Statistics	3	1	0	4
5.	Core	1	MA 2108	Engineering Mathematics	3	1	0	4
6.	Core- Str	1	CE 2104	Theory of Elasticity and Plasticity	3	1	0	4
7.	Core- Trans	1	CE 2103	Soil Properties and Foundation	3	1	0	4
8.	Core- Trans	1	CE 2106	Urban Geography and Transportation	3	1	0	5
9.	Core- WRS	1	CE 2105	Advanced Fluid Mechanics	3	1	0	4
<b>M. Tech. (Civil Engg.) ELECTIVE SUBJECTS</b>								
10.	EL- Str	2	CE 2221	Advanced Structural Analysis I	3	1	0	4
11.	EL- Str	2	CE 2222	Concrete Technology	3	1	0	4
12.	EL- Str	2	CE 2223	Theory of Plates and Shells	3	1	0	4
13.	EL- Str	2	CE 2224	Pre-Stressed Concrete	3	1	0	4
14.	EL- Str	2	CE 2225	Design of Multistoried Building	3	1	0	4
15.	EL- Str	2	CE 2226	R.C. Structures	3	1	0	4
16.	EL- Str	2	CE 2227	Advanced Structural Analysis II	3	1	0	4
17.	EL- Str	2	CE 2228	Structural Stability	3	1	0	4
18.	EL- Str	2	CE 2229	Steel Structure Design	3	1	0	4
19.	EL- Str	2	CE 2230	Design of Bridges	3	1	0	4
20.	EL- Str	2	CE 2231	Advance Soil Properties and Foundation	3	1	0	4
21.	EL- Str	2	MA 21XX	Probability and Statistics	3	1	0	4
22.	EL- Trans	2	MA 2108	Engineering Mathematics	3	1	0	4
23.	EL- Trans	2	CE 2261	Geometric Design of Highway and Airport Pavements	3	1	0	4
24.	EL- Trans	2	CE 2262	Traffic Engineering and Management	3	1	0	4
25.	EL- Trans	2	CE 2263	Highway Material and Construction	3	1	0	4
26.	EL- Trans	2	CE 2264	Highway Sub-grade and Foundation	3	1	0	4
27.	EL- Trans	2	CE 2265	Highway Economics	3	1	0	4

S. No	Specialization	Sem	Course Code	Course Title	L	T	P	Credits
28.	EL- Trans	2	CE 2266	Airport Planning and Design	3	1	0	4
29.	EL- Trans	2	CE 2267	Pavement Design	3	1	0	4
30.	EL- Trans	2	CE 2268	Transportation Planning Models	3	1	0	4
31.	EL- Trans	2	CE 2269	Interstate Transport Planning	3	1	0	4
32.	EL- Trans	2	CE 2270	Tunnel Harbors and Docks	3	1	0	4
33.	EL- Trans	2	CE 2271	Traffic Flow Theory	3	1	0	4
34.	EL- Trans	2	CE 2272	Land Use Planning	3	1	0	4
35.	EL- Trans	2	CE 2273	Railways	3	1	0	4
36.	EL- WRS	2	CE 2241	Open Channel Flow	3	1	0	4
37.	EL- WRS	2	CE 2242	Water Resources Planning and Economic Analysis of Water Resources System	3	1	0	4
38.	EL- WRS	2	CE 2243	Advanced Hydrology	3	1	0	4
39.	EL- WRS	2	CE 2244	Groundwater Hydrology	3	1	0	4
40.	EL- WRS	2	CE 2245	Design of Dams	3	1	0	4
41.	EL- WRS	2	CE 2246	Flood Control and Drainage	3	1	0	4
42.	EL- WRS	2	CE 2247	River Engineering	3	1	0	4
43.	EL- WRS	2	CE 2248	Irrigation Water Management	3	1	0	4
44.	EL- WRS	2	CE 2249	Hydro Power Planning and Design	3	1	0	4
45.	EL- WRS	2	CE 2250	Reservoir Operation and Planning	3	1	0	4
46.	EL- WRS	2	CE 2251	Hydrodynamics	3	1	0	4
47.	EL- WRS	2	CE 2252	Stochastic Hydrology	3	1	0	4

## Course Structure for M. Tech (Mech Engg.)

Program Code	Semester	Course code	Course Title	L- T- P	Credit
		<b>Core Courses (Common for all Specialization)</b>			
MEPG	1	MA 2109	Advanced Mathematics	3-1-0	4
MEPG	1	ME 2162	Advanced Thermodynamics	3-1-0	4
MEPG	1	ME 2163	Experimental Methods in Thermal Science	3-1-0	4
MEPG	1	ME 2164	Advanced Topics in Engg. Optimization	3-1-0	4
MEPG	1	ME 2165	Advanced Heat & Mass Transfer	3-1-0	4
MEPG	1	ME 2166	Seminar	0-0-4	3
MEPG	1		<b>TOTAL</b>		<b>23</b>
		<b>REFRIGERATION AIR CONDITIONING &amp; HEAT TRANSFER</b>			
MEPG	2	ME 2267	Refrigeration System	3-0-3	5
MEPG	2	ME 2268	Thermal Environmental Control	3-0-3	5
MEPG	2	ME 2269	Design of Heat Exchange Equipment	3-0-3	5
MEPG	2	ME 2270	Solar Energy	3-0-3	5
MEPG	2	ME 2271	Individual Study, Report and Seminar	1-0-6	5
MEPG	2		<b>TOTAL</b>		<b>25</b>
		<b>THERMAL TURBO MACHINE</b>			
MEPG	2	ME 2272	Thermal Turbo Machinery	4-1-0	5
MEPG	2	ME 2273	Gas Dynamics	4-1-0	5
MEPG	2	ME 2274	Principle and Design of Gas Turbine	4-1-0	5
MEPG	2	ME 2275	Hydraulic Turbo Machines	4-1-0	5
MEPG	2	ME 2271	Individual Study, Report and Seminar	1-0-6	5
MEPG	2		<b>TOTAL</b>		<b>25</b>
		<b>Common for all Specialization</b>			
MEPG	3	ME 2376	Seminar	0-0-3	2
MEPG	3	ME 2377	Dissertation (To continue in 4 <sup>th</sup> Semester)	0-0-12	8
MEPG	3		<b>TOTAL</b>		<b>10</b>
		<b>Common for all Specialization</b>			
MEPG	4	ME 2478	Seminar	0-0-3	2
MEPG	4	ME 2477	Dissertation	0-0-20	13
MEPG	4		<b>TOTAL</b>		<b>15</b>
		<b>List of Electives (to be introduced)</b>			
MEPG	Elective	ME 2X79	Combustion Engines and Pollution		
MEPG	Elective	ME 2X80	Advanced computational fluid dynamics		



### Evaluation under Credit System

Education at the institute is organized around the credit system of study. The prominent features of the credit system entail a process of continuous evaluation of a student's performance and flexibility to allow a student to progress at an optimum pace suited to his/her ability or convenience subject to fulfilling minimum requirement for continuation.

Each course has a certain number of credits which describe its weightage. A student's performance is measured by the number of credits that he/she has completed satisfactorily. A minimum Grade Point Average is required to be maintained for satisfactory progress. Also a minimum number of earned credits should be obtained in order to qualify for the degree.

Each course is coordinated by a member of the teaching staff of the Department, which offers the course in a given semester. This faculty member is called the course coordinator. He has full responsibility for conducting the course, coordinating the work of the other members of the faculty involved in that course and for holding tests and assignments and awarding grades. For any difficulty a student is expected to approach the course coordinator for advice and clarification.

### Awarding of Grades

The grade in each course shall be awarded on the basis of the total marks obtained in the subject concerned as follows:

#### Conversion from Percentage marks to Grade and its Grade points Award of Grade and Grade point

For Semester Exam.		Theory Component:		Practical Component:	
Range of marks (m)	Performance	Grade to be awarded	Grade Point per Credit	Grade	Grade Point per Credit
m >= 90	Excellent	A+	10	A+	10
80 <= m < 90	Very good	A	9	A	9
70 <= m < 80	Good	B	8	B	8
60 <= m < 70	Fair	C	7	C	7
50 <= m < 60	Average	D	6	D	6
35 <= m < 50	Pass	P	5		
40 <= m < 50	Pass			P	5
m < 35	Fail	F	0		
m < 40	Fail			F	0
Not appeared at End Semester Exam	Incomplete	I	*	I	*
Unsatisfactory Attendance/ Disciplinary Action/ Adopted malpractice	Debarred	X		X	

\* Symbol to indicate Incomplete Course as student has been absent at End semester examination for Theory and/ or practical component of examination(s) - to be used in tabulation sheet.

### Awarding of SGPA/ CGPA

The Semester Grade Point Average (SGPA) shall be calculated as follows:

- (a) The point equivalent awarded in each subject of the course, for which the student has been registered, shall be multiplied by its credits points.

- (b) These products shall be added and the sum shall be divided by the total number of Credits Points registered for, ignoring the incomplete grade. The ratio shall be called SGPA.

The Cumulative Grade Point Average (CGPA) shall be computed at the end of the second and subsequent semesters in the following manner:

- (a) The SGPA obtained in each semester shall be multiplied by its corresponding total, credits registered for the semester.
- (b) These products shall be added and the sum shall be divided by the total number of credits points registered in all the semester.
- (c) Both SGPA and CGPA shall be, rounded off to the second place of decimal.

### ***Eligibility for Award of M. Tech. Degree***

A candidate shall be entitled to the degree of M. Tech only on successful completion of minimum 70 credits provided he has obtained a minimum of "D" grade in each subject or a minimum CGPA of 6.00. After a candidate clears the required number of credits and fulfills other requirements and conditions of the regulations for Post-graduate program (M. Tech), he/she shall be declared to have passed M. Tech. examination.

***As per Hon'ble Supreme Court's order in writ application No. (C) 656/1998 "Ragging is banned in the Institution".***

***Any one found indulging in ragging shall be punished as per Hon'ble Supreme Court Orders appropriately which may include expulsion from the Institute.***

***The Institute treats ragging as a cognizable offence and stern action will be taken against the offenders.***



**NATIONAL INSTITUTE OF TECHNOLOGY PATNA  
PATNA – 800005 (BIHAR)  
M. Tech Program Session – 2010-11**

**Application Form for Institution Level Counseling**

APPLICATION NO. (to be assigned by Receiving office)				<p align="center"><b>PHOTOGRAPH</b> Affix recent passport size photograph</p> <p align="center">And Put your signature in box provided below this space in Black Jell Pen</p>
To be filled by the candidate in his/her own handwriting in Capital letters except signature				
GATE ROLL NO.		CATEGORY (Put ✓ mark)		
GATE RANK		OP/ General		
GATE SCORE		OBC		
GATE Percentile		SC		
Branch of Engg		ST		
STATE		PH		
District		Sponsored		
Details of Demand Draft attached: Bank / Branch		DD number	Amount	
Please Indicate Order of preference of Branch/ Specialization your by Writing 1,2,3 in last column				
Elect. Engg:	1.	(i) Control System		
	2.	(ii) Power system		
Civil Engg:	3.	(i) Structural Engg.		
	4.	(ii) Transportation Engg		
	5.	(iii) Water Resources		
Mech. Engg:	6.	(i) Refrigeration, Air Conditioning & Heat Transfer		
	7.	(ii) Thermal Turbo Machinery		
1.	Name of candidate in full (as per 10 <sup>th</sup> Certificate)			
2.	Father's Name			
3.	Mother's Name			
4.	Guardian's name in full (if father is not alive)			
5.	Date of Birth (dd-mm-yy)/ Sex:		Male/ Female	
6.	Occupation of Parents	Father:	Mother:	
	Parents Income per annum from all Sources			
	Organization where father/ Mother is working or Guardian (if father is not alive),			
7.	Correspondence Address			
	Pin Code:			
	Phone No. (with STD Code)/ Mobile No.:			
	Email ID:			

8.	Permanent Address					
	Pin Code:					
9.	<b>Educational Qualifications:-</b>					
	<i>Name of Examination</i>	<i>Name of the Institute</i>	<i>Name of the Board/ University</i>	<i>Year of Passing</i>	<i>Percentage marks</i>	
	Secondary/10 <sup>th</sup>					
	I. Sc./XIII/ (10 +2)					
<b>B. Tech/ B.E./ B. Sc. Engg or Equivalent* Academic Record of the Qualifying Examinations</b>						
	<i>Degree and Branch</i>	<i>Institute/ University</i>	<i>Semester/ Year</i>	<i>Year of passing</i>	<i>SGPA/ % Marks</i>	<i>CGPA/ Aggregate</i>
			1 <sup>st</sup> First			
			2 <sup>nd</sup>			
			3 <sup>rd</sup> Second			
			4 <sup>th</sup>			
			5 <sup>th</sup> Third			
			6 <sup>th</sup>			
			7 <sup>th</sup> Fourth			
			8 <sup>th</sup>			
10.	Declaration of the Candidate :					
	I,..... Son/ Daughter of Sri.....					
	Declare that : -					
	a) Information furnished above are correct and in case any of them is proved to be false or forged at any stage of my admission to and/ or stay in the Institute, I shall be liable (i) to lose my candidature for admission to the program, (ii) for expulsion from the Institute if admitted and (iii) for appropriate legal action.					
	b) In the event of my being admitted to this Institution, I shall abide by all the rules and regulations of the Institute and the University, concerned.					
	Place : _____			Full Signature of the Candidate in English		
	Date : _____					
11.	Declaration of the Father / Guardian (to be filled in his / her own handwriting)					
	I,.....(Name) declare that in the event of Sri/Smt./ Miss..... being admitted to this Institution. I shall be responsible for his / her conduct and undertake to pay all his / her Institute, Hostel, Mess and other dues regularly till the completion of his / her studies. I further certify that the Information furnished by him/ her are correct.					
	Place :			Full Signature of Father / Guardian		
	Date :					
<b>Acknowledgment (Please Tear along this Row):</b>						
<i>In case of form being deposited at Institution Counter the counter foil of application be returned to the candidate</i>						
APPLICATION NO			<i>Signature &amp; seal of receiving Office</i>			
APPLICATION NO						
Name of the candidate						
Date of submission						

12.	<b>Please Enclose Self attested Photocopies of following:-</b>		(Put $\checkmark$ mark)
(i)	Demand Draft of Application Fee as per information Brochure	Must be submitted with application form	
(ii)	GATE Score/ Rank Card		
(iii)	Certificate of Category (OBC/ SC / ST/ PH), if applicable, Issued by the competent authority		
(iv)	Income certificate for OBC candidates stating the Candidate's Parent do not belong to Creamy Layer as per directive of the MHRD		
(v)	Certificate for Physically handicapped		
(vi)	Qualifying Examination Marks Sheet/ Grade Card		
(vii)	Four Photographs identical to the one Pasted on the application form	Must be submitted at the time of admission Counselling	
(viii)	Class X (High School) Board Certificate as proof of date of birth		
(ix)	Qualifying Examination Passing Certificate of		
(x)	Migration Certificate from the University/ Deemed University/ Institute attended		
(xi)	Demand Draft for Tuition Fee and Development Fee as per Information Brochure		
<b>Signature of Verifying Officers</b>			
	1..... 2..... 3..... 4..... 5.....		
<b>(To be obtained at the time of admission only)</b>			
	Full Signature of the Candidate: (English)		
	Left Thumb impression of the Candidate		
<b>(For Office use Only)</b>			
	Admit Mr./Ms.....in M. Tech Program first semester under Department of Elect/ Mech/ Civil Engg. with Specialization ..... As per records his Category Merit Sl. No. ....and is admitted against College Roll no..... He/ she fulfilled all requirements for being admitted.		
	Signature of Final Checking Officer		
	Signature of Asst. Registrar (Admission)		
	Signature of Dean Academic Affairs/ Chairman Admission Committee:		

## **“Sponsorship Certificate from the Employer”**

*(To be provided on the letter Head of the Organization, Only for candidates desirous of admission as full time sponsored candidates)*

### **To whom it may concern**

This is to certify that Mr./ Ms. \_\_\_\_\_ (*Full name of the employee*) is working as \_\_\_\_\_ (*Designation of the employee*) in the organization from \_\_\_\_\_ to \_\_\_\_\_, and has completed two years of service. He is confirmed/ likely to be confirmed soon in the grade/ pay scale of Rs. \_\_\_\_\_.

It is further informed that he/ she shall be relieved or granted leave for the period of his/ her higher studies at National Institute of Technology Patna.

He / she will attend classes and other academic activities at the institute as per curricula requirement of the M. Tech program. The conduct of sponsored candidate shall be the responsibility of the sponsoring organization.

Signature of the issuing officer

*(Name and designation of the Issuing officer with Official Seal)*

Place \_\_\_\_\_

Date \_\_\_\_\_

**Proforma for Other Backward Class (OBC) Certificate**

[Certificates issued from Maharashtra State must be validated by the Social Welfare Department of the Maharashtra Government]

**(CERTIFICATE TO BE PRODUCED BY OTHER BACKWARD CLASSES  
APPLYING FOR ADMISSION TO CENTRAL EDUCATIONAL INSTITUTIONS  
(CEIs), UNDER THE GOVERNMENT OF INDIA)**

This is to certify that Shri/ Smt./ Kum. \_\_\_\_\_ Son / Daughter of Shri/ Smt. \_\_\_\_\_ of Village / Town \_\_\_\_\_ District / Division \_\_\_\_\_ in the \_\_\_\_\_ State belongs to the \_\_\_\_\_ Community which is recognized as a backward class under:

- (i) Resolution No. 12011/68/93-BCC(C) dated 10/09/93 published in the Gazette of India Extraordinary Part I Section I No. 186 dated 13/09/93.
- (ii) Resolution No. 12011/9/94-BCC dated 19/10/94 published in the Gazette of India Extraordinary Part I Section I No. 163 dated 20/10/94.
- (iii) Resolution No. 12011/7/95-BCC dated 24/05/95 published in the Gazette of India Extraordinary Part I Section I No. 88 dated 25/05/95.
- (iv) Resolution No. 12011/96/94-BCC dated 9/03/96. (v) Resolution No. 12011/44/96-BCC dated 6/12/96 published in the Gazette of India Extraordinary Part I Section I No. 210 dated 11/12/96.
- (vi) Resolution No. 12011/13/97-BCC dated 03/12/97.
- (vii) Resolution No. 12011/99/94-BCC dated 11/12/97.
- (viii) Resolution No. 12011/68/98-BCC dated 27/10/99.
- (ix) Resolution No. 12011/88/98-BCC dated 6/12/99 published in the Gazette of India Extraordinary Part I Section I No. 270 dated 06/12/99.
- (x) Resolution No. 12011/36/99-BCC dated 04/04/2000 published in the Gazette of India Extraordinary Part I Section I No. 71 dated 04/04/2000.
- (xi) Resolution No. 12011/44/99-BCC dated 21/09/2000 published in the Gazette of India Extraordinary Part I Section I No. 210 dated 21/09/2000.
- (xii) Resolution No. 12015/9/2000-BCC dated 06/09/2001.
- (xiii) Resolution No. 12011/1/2001-BCC dated 19/06/2003.
- (xiv) Resolution No. 12011/4/2002-BCC dated 13/01/2004.
- (xv) Resolution No. 12011/9/2004-BCC dated 16/01/2006 published in the Gazette of India Extraordinary Part I Section I No. 210 dated 16/01/2006.

Shri/ Smt./ Kum. \_\_\_\_\_ and / or his family ordinarily reside(s) in the \_\_\_\_\_ District / Division of \_\_\_\_\_ State. This is also to certify that he / she does not belong to the persons / sections (Creamy Layer) mentioned in Column 3 of the Schedule to the Government of India, Department of Personnel & Training O.M. No. 36012/22/93-Estt. (SCT) dated 08/09/93 which is modified vide OM No. 36033/3/2004 Estt.(Res.) dated 09/03/2004 or the latest notification of the Government of India.

Dated:

District Magistrate/ Competent Authority with Seal

NOTE:

- (a) The term 'Ordinarily' used here will have the same meaning as in Section 20 of the Representation of the People Act, 1950.
- (b) The authorities competent to issue Caste Certificates are indicated below:
  - (i) District Magistrate / Additional Magistrate / Collector / Deputy Commissioner / Additional Deputy Commissioner / Deputy Collector / Ist Class Stipendiary Magistrate / Sub-Divisional magistrate / Taluka Magistrate / Executive Magistrate / Extra Assistant Commissioner (not below the rank of Ist Class Stipendiary Magistrate).
  - (ii) Chief Presidency Magistrate / Additional Chief Presidency Magistrate / Presidency Magistrate.
  - (iii) Revenue Officer not below the rank of Tehsildar.
  - (iv) Sub-Divisional Officer of the area where the candidate and / or his family resides.
- (c) The annual income / status of the parents of the applicant should be based on financial year ending March 31, 2010.

**Declaration / Undertaking –for OBC Candidates only  
(To be submitted by the Candidate)**

I, Mr./Ms. \_\_\_\_\_ son / daughter of Shri \_\_\_\_\_  
resident of village / town /city \_\_\_\_\_ district \_\_\_\_\_  
State hereby declare that I belong to the \_\_\_\_\_ community which  
is recognized as a backward class by the Government of India for the  
purpose of reservation for admission in Central Government Institutions as per  
orders contained in Department of Personnel and Training Office Memorandum  
No. 36012/22/93-Estt. (SCT), dated 8/9/1993. It is also declared that I do not  
belong to persons / sections (Creamy Layer) mentioned in Column 3 of the  
Schedule to the above referred Office Memorandum, dated 8/9/1993, which is  
modified vide Department of Personnel and Training Office Memorandum No.  
36033/3/2004 Estt. (Res.) dated 9/3/2004.

I  
also declare that the condition of status / annual income for creamy layer of  
my parents is within prescribed limits as on financial year ending on March  
31, 2009.

Place:

Signature of the Candidate

Date:

**Declaration / undertaking not signed by Candidate will be rejected**



**Proforma for Scheduled Caste (SC) / Scheduled Tribe (ST) Certificate**

*[Certificates issued from Maharashtra State must be validated by the Social Welfare Department of the Maharashtra Government]*

This is to certify that Mr. / Ms. ....  
..... Son/Daughter of .....  
..... belongs to Scheduled  
Caste / Scheduled Tribe category and is resident of village / city...  
..... State..... His / her  
caste is notified as Schedule Caste / Schedule Tribe by Government of  
India Act 1956 (Amended).

**Candidate's Signature**

**Signature:**

**Place:**

**Name:**

**Date:**

**Designation\***

**Seal**

**Place**

**Date:**

**\* Tehsildar / ADM or Designated Authority**

**Proforma for Physically Challenged (PH) Certificate  
(To be obtained by the candidate)**

Affix here recent Photograph showing  
the disability duly attested by  
CMO of the District/ Civil Surgeon

**Affix here recent  
Photograph showing the  
disability  
duly attested by  
CMO of the District/ Civil  
Surgeon**

**This is to certify that I have examined Mr./ Ms \_\_\_\_\_  
\_\_\_\_\_ son / daughter of \_\_\_\_\_  
\_\_\_\_\_ He / She as \_\_\_\_\_  
(name of physical disability) which comes under the following type of disorder:**

- 1. Orthopedic disorder**
- 2. Vision**
- 3. Speech and Hearing impaired**

**The percentage of disorder is \_\_\_\_\_ percentage**

**Signature of candidate  
Date**

**Signature of CMO of the District / Civil Surgeon**

**Place  
Name**

**Seal**

**Place:**

**Date:**

Note:

1. For physically challenged category a minimum of 40% disability is required subject to the condition that the candidate is capable of carrying out all activities related to theory and practical work as applicable to B.E./ B.Tech/ B. Arch. courses without any special concessions and exemptions.
2. Certificate issued on or after January 1, 2010 will only be accepted.
3. Medical board of CCB will examine the candidate to verify the claim of handicap at the Admission Centre.
4. CCB reserves the right to accept/reject the claim of the candidate.

National Institute of Technology Patna

Proforma for Physically Challenged (PH) Certificate

(for the use of Medical Board at Admission Centre)

Date \_\_\_\_\_

This is certified that Shri/ Smt/ Kum \_\_\_\_\_  
\_\_\_\_\_ son/daughter of Shri \_\_\_\_\_  
\_\_\_\_\_ age \_\_\_\_\_ sex \_\_\_\_\_ identification marks(s) \_\_\_\_\_

\_\_\_\_\_ is suffering from permanent disability of following category:-

A. Locomotor or cerebral palsy:

- (i) BL-Both legs affected but not arms.
- (ii) BA-Both arms affected
  - (a) Impaired reach
  - (b) Weakness of grip
- (iii) BLA-Both legs and both arms affected
- (iv) OL-One leg affected (right or left)
  - (a) Impaired reach
  - (b) Weakness of grip
  - (c) Ataxic
- (v) OA-One arm affected
  - (a) Impaired reach
  - (b) Weakness of grip
  - (c) Ataxic
- (vi) BH-Stiff back and hips (Cannot sit or stoop)
- (vii) MW-Muscular weakness and limited physical endurance.

B. Blindness or Low Vision:

- (i) B-Blind
- (ii) PB-Partially Blind

C. Hearing Impairment :

- (i) D-Deaf
- (ii) PD-Partially Deaf Percentage of disability in his/her case is \_\_\_\_\_ percent.

This is to certify that the candidate is capable to carry out all theory and practical requirement of engineering/ technology/ architecture studies. Or

This is to certify that the candidate is not capable to carry out all theory and practical requirement of engineering/ technology/ architecture studies due to \_\_\_\_\_

\_\_\_\_\_

Signature of the candidate \_\_\_\_\_

(Dr. \_\_\_\_\_)  
Member, Medical Board

(Dr. \_\_\_\_\_)  
Member, Medical Board

(Dr. \_\_\_\_\_)  
Chairperson, Medical Board

**Guidelines to the Medical Board for Physical Disability**  
*(Not a part of the Physically Challenged (PH) certificate)*

The candidate should meet the following physical requirements for discharge of his /her duties:-

(i)	F-can perform work by manipulating with fingers.	Yes/No
(ii)	PP-can perform work by pulling and pushing.	Yes/No
(iii)	L-can perform work by lifting.	Yes/No
(iv)	KC-can perform work by kneeling and crouching	Yes/No
(v)	B-can perform work by bending.	Yes/No
(vi)	S-can perform work by sitting.	Yes/No
(vii)	ST-can perform work by standing.	Yes/No
(viii)	W-can perform work by walking.	Yes/No
(ix)	SE-can perform work by seeing.	Yes/No
(x)	H-can perform work by hearing/speaking.	Yes/No
(xi)	RW-can perform work by reading and writing	Yes/No