

UNIVERSITY OF KALYANI

Admission Notification: M. Tech. (CSE) Course

Advt. No. M. Tech. (CSE) 07/15

Applications are invited for admission to the **M.Tech. in Computer Science & Engineering** (2 years, 4 Semesters full time day course) of the University of Kalyani, West Bengal for the session **2015-16**.

Eligibility: 1st class B. Tech. / B.E. in Computer Science & Engineering/ Computer Science & Technology/ Information Technology or MCA [Honours Graduate (50%) in Phys./Maths/Stats/Comp. Sc. or BCA with 1st class or any B.E./B. Tech.] or equivalent degree. Candidates must obtain at least 60% marks in 10 and 10+2 levels. Reservation of seats & relaxation of marks for SC/ST/OBC candidates as per West Bengal Govt. rules.

Information Brochure along with Application Fee challan & Application form can be downloaded from the University website- www.klyuniv.ac.in from 15th May'15 until 29th May'15. Applicants shall make a payment of **Rs. 500/-** [**Rs. 300/-** for **SC/ST**] as application fee through Bank Challan to be deposited in any branch of SBI. **Fee collection charge by the Bank is additional**. Forms shall be submitted at Admission Section of University of Kalyani during 11.00 a.m to 3.00 p.m. on all working days excepting Saturday, Sunday and holidays from 15th May 2015 to 29th May 2015.

Last date of receiving of application form: 29th May, 2015

Dr. Pinaki Chattopadhyay
Secretary, Faculty Councils (P.G.)

GEN/ SC/ ST/OBC (Please put a tick mark)

Rs. 500/- (Rs. 300/- for SC/ST)

Session 2015-2016



University of Kalyani
Application for Admission to the M. Tech. in
Computer Science & Engineering
(To be filled in BLOCK LETTERS only)

Affix
Passport
Size
Photograph
Here

1. Name of the Applicant :
2. Father's / Mother's Name :
3. Occupation & Income of Father /
Mother or both :
4. Permanent Address :
5. Mailing Address
(Including e-mail & Phone No.) :
6. Nationality :
7. Date of Birth :
8. Whether belongs to SC/ST/OBC :
9. Whether valid GATE Candidate (If
'yes' mention Gate score out of 100) :
10. Whether Sponsored Candidate (In
Service approval from the authority
will be required /NRI/Foreign) :
11. Application Fee details (Challan
copy to be attached) :
12. Academic Qualifications : (From H.S. or equivalent)

Name of the Examination	Board / University	Year of Passing	Subject(s) taken	% of Marks obtained	Class/ Division

Note: Self attested copies of mark sheets & SC/ST/OBC certificate by appropriate Authority (Gazetted Officer, University Teacher, University Officer, College Principal) must be enclosed along with the completed form.

DECLARATION

I solemnly declare that the particulars and information furnished above are correct to the best of my knowledge and belief and I shall remain personally liable to any mistake of falsehood detected therein subsequently.

(Full Signature of the applicant)

Date:

Place:

Form No.



University of Kalyani
Kalyani, West Bengal

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ADMIT**

Sri/Sm.

Roll KU/M.Tech-15.....**No.**

to written test for admission to two years M. Tech. course in Computer Science & Engineering (CS & E) of the University of Kalyani to be held on 4th June, 2015 from 12-00 noon at the Department of CSE.

Head

**Department of Computer Science &
Engineering**




** Admit card will be distributed one hour before the start of written test on the given date.


Received Admit Card No.

Signature


First Copy

UNIVERSITY OF KALYANI ADMISSION SECTION P.O-KALYANI, DIST-NADIA, PIN741235, W.B  APPLICANT'S COPY		
SBI Powerjyoti Account		
Note: Fees collection Charges is to be paid additionally		
Fee Payment Challan		
Fee Collection Account Number		
State Bank of India	32183583982	
Branch Name	Branch Code	Date
Applicant's Name		
Address & Mobile No.		
Application fees		
Fee collection charges		
Total		
Amount in words		
..... only		
Signature of the Applicant		
For Bank use only		
Journal No.		
Seal / Date	Authorized Signatory	

Second Copy

UNIVERSITY OF KALYANI ADMISSION SECTION P.O-KALYANI, DIST-NADIA, PIN741235, W.B  COPY TO BE SUBMITTED WITH APPLICATION FORM		
SBI Powerjyoti Account		
Note: Fees collection Charges is to be paid additionally		
Fee Payment Challan		
Fee Collection Account Number		
State Bank of India	32183583982	
Branch Name	Branch Code	Date
Applicant's Name		
Address & Mobile No.		
Application fees		
Fee collection charges		
Total		
Amount in words		
..... only		
Signature of the Applicant		
For Bank use only		
Journal No.		
Seal / Date	Authorized Signatory	

Third Copy

UNIVERSITY OF KALYANI ADMISSION SECTION P.O-KALYANI, DIST-NADIA, PIN741235, W.B  BANK COPY		
SBI Powerjyoti Account		
Note: Fees collection Charges is to be paid additionally		
Fee Payment Challan		
Fee Collection Account Number		
State Bank of India	32183583982	
Branch Name	Branch Code	Date
Applicant's Name		
Address & Mobile No.		
Application fees		
Fee collection charges		
Total		
Amount in words		
..... only		
Signature of the Applicant		
For Bank use only		
Journal No.		
Seal / Date	Authorized Signatory	

Information Brochure

& Application Form 2015-2016

**M. Tech. In Computer Science &
Engineering**



Department of Computer Science & Engineering
University of Kalyani
Kalyani, Nadia, West Bengal

The University:

University of Kalyani is situated at Kalyani Township, West Bengal, India. Kalyani is located at a distance of 50 K.M. away from Kolkata with National Highway on the one side and the river Ganga on the other. Kalyani is gradually emerging as a moment center of Higher Education the State. In and around the Kalyani, four Universities namely, Bidhan Chandra Krishi Viswa Vidyalaya, West Bengal University of Animal and Fisheries Science, Netaji Subhas Chandra Open University, and West Bengal University of Technology have been set up beside the University of Kalyani. The University was established in the year 1960 with a vast campus area of 325 acres in eco-friendly set up. The University is playing a significant role in expanding the horizon of applied sciences, technical professional education in the State. Presently the University is offering advanced facilities for post-graduate education and research in 28 different subjects/disciplines in Science, Engineering & Technology, Management, Arts & Commerce and Education.

The Department:

Department of Computer Science & Engineering is under the faculty of Engineering, Technology & Management, conducting:

- (i) Ph. D. Programme in Computer Science & Engineering
- (ii) M. Tech. in Computer Science & Engineering (Elective subjects covering three areas namely Computer Science (CS), Information Technology (IT), and Computer Application (CA) under each of which different subjects are covered like Parallel Architecture, Optical Networks, Real Time Systems, Web Mining, Data Compression & Error Correction, Bio-informatics, VLSI Technology and Embedded Systems, Network Administration, Cloud Computing, Authentication & Steganography etc.).
- (iii) Master in Computer Application (MCA), three-year post-graduate degree course from the session 2001-2002.

The Course:

M. Tech. course covers contemporary and emerging fields of wide-ranging interests. The curriculum covers a wide spectrum of Computer Science subjects and is revised Continuously to meet the growing needs of the industry. The department has a team of committed faculty members, who inculcate students conceptual foundations coupled with practical insights. The width and depth of the courses is complemented by academia-industry interface imparting uniqueness to the post-graduate program. On successful completion of the course, students may take up either:

- (a) A professional career in the Computer Technology or Software or Computer system or Remote Sensing, Security, Soft Computing, Optical Network. Image Processing or specialized application areas.
- (b) An academic career for further study and research in the fundamental and applied aspects of Computers Science and Technology and related disciplines.

Duration:

Duration of the Course will be of two academic years consisting of four semesters, each of six months durations. At the end of each semester an examination of the course covered in the semester will be held. This examination will be referred to as M. Tech. Examination of that semester.

Qualification for Admission:

1st class B. Tech. / B.E. in Computer Science & Engineering/ Computer Science & Technology/ Information Technology or MCA [Honours Graduate (50%) in Phys./Maths/Stats/Comp. Sc. or BCA with 1st class or any B.E./B. Tech.] or equivalent degree. Candidates must obtain at least 60% marks in 10 and 10+2 levels. Reservation of seats & relaxation of marks for SC/ST/OBC candidates as per West Bengal Govt. rules.

Selection Procedure and Student Strength:

Selection is done on all India basis and in accordance with 70% weightage on written test and 30% weightage on GATE score. Non-GATE candidates can also apply. Decision of the admission committee is final. Information Brochure along with Application Fee challan & Application form can be downloaded from the University website- www.klyuniv.ac.in from 15th May'15 until 29th May'15. Applicants shall make a payment of **Rs. 500/- [Rs. 300/- for SC/ST]** as application fee through Bank Challan to be deposited in any branch of SBI. **Fee collection charge by the Bank is additional.** Forms shall be submitted at Admission Section of University of Kalyani during 11.00 a.m to 3.00 p.m. on all working days excepting Saturday, Sunday and holidays from 15th May 2015 to 29th May 2015.

Number of seats is 20.

Address to Send Application:

Admission Section, University of Kalyani, Kalyani – 741235, Nadia, West Bengal, India.

Syllabus for Admission Test:

Computer fundamentals logic & organization, Operating Systems, Compilers, Data Structures, Network, Communication, DBMS, Graph Theory, Discrete Math, Internet, Web technology, Microprocessor, Architecture.

Attendance:

In order to be eligible for appearing in a semester examination a candidate shall have to pursue a regular course of studies in the subject and attended at least 75% of the theoretical and practical classes separately during the academic session.

Placement:

Since placement of successful student constitutes an important aspect of the responsibility of the institutions offering professional course such as M. Tech., the University takes necessary steps for the student's exposure and healthy interaction with the problems of industry. Placement is done through the leadership of placement officer.

University of Kalyani

Department of Computer Science & Engineering

Curriculum for M. Tech. (CSE)

Semester I

Paper Code	Paper Name	Weekly Contact Period (WCP)				Credit	Marks			
		Lecture	T [#]	P [#]	Total		S [#]	Exam.	Total	
Theoretical										
CSE 101	Advanced Operating Systems	4	0	0	4	4	20	80		100
CSE 102	Soft Computing & Digital Image Processing	4	0	0	4	4	20	P-20	Th-60 [^]	100
CSE 103	Advanced Mathematics	4	0	0	4	4	20	80		100
CSE 104	Advanced Computer Architecture	4	0	0	4	4	20	80		100
CSE 105	Advanced Design and Analysis of Algorithm	4	0	0	4	4	20	80		100
Practical # T – Tutorial, P – Practical, S – Sessional, ^Th – Theory, A – Assignment										
CSE 101 L	Soft Computing & Image Processing Lab.	-	-	6	6	4	20	A-20,P-50,V-30		100
Total Credit: 24							Total Marks: 600			

Semester II

Paper Code	Paper Name	Weekly Contact Period (WCP)				Credit	Marks			
		Lecture	T	P	Total		S	Exam.	Total	
Theoretical										
CSE 201	Advanced Network Security & TCP/IP Programming	4	0	0	4	4	20	P-20	Th-60	100
CSE 202	Mobile & Wireless Computing	4	0	0	4	4	20	80		100
CSE 203	Advanced Database System	4	0	0	4	4	20	P-20	Th-60	100
CSE 204 E	Elective I (CS)	4	0	0	4	4	20	80		100
CSE 205 E	Elective II (IT)	4	0	0	4	4	20	80		100
Practical										
CSE 201 L	Advanced Communication Lab.	0	0	6	6	4	20	A-20,P-50,V-30		100
Total Credit: 24							Total Marks: 600			

Semester III

Paper Code	Paper Name	Weekly Contact Period (WCP)				Credit	Marks			
		Lecture	T	P	Total		S	Exam	Total	
Theoretical										
CSE 301	Remote Sensing GIS, GPS	4	0	0	4	4	20	80		100
CSE 302 E	Elective III (CA)	4	0	0	4	4	20	P-20	Th-60	100
CSE 303 D	Thesis I	-	-	18	18	12	R-100, P-100, V-100*			300
Practical * R-Report, P- Presentation, V - Viva										
CSE 301 L	Satellite Image Processing & GIS Lab	-	-	6	6	4	20	A-20,P-50,V-30		100
Total Credit:24							Total Marks: 600			

Semester IV

Paper Code	Paper Name	Weekly Contact Period (WCP)				Credit	Marks			
		Lecture	T	P	Total		Report	Presentation	Viva	Total
Dissertation										
CSE 401D	Thesis II	-	-	24	24	16	200	100	100	400
CSE 402S	Seminar	-	-	-	-	6	30	30	40	100
CSE 403GV	Grand Viva	-	-	-	-	6	-	-	100	100
Total Credit: 28							Total Marks: 600			

Total Marks for Two Years (4-Semesters) M. Tech. (CSE) is 2400, Total Credit is 100.

For session at-least two intermediate exams are to be taken, average mark will be the sessional marks for each subject. Corrected paper of these intermediate exams is to be returned to the respective student. Topic must be different for each student in Seminar.

• **Elective I (Computer Science [CS])**

- (i) Parallel Architecture / Processing and Grid Computing
- (ii) Theory of Programming Languages / Computing
- (iii) Real Time Systems
- (iv) Pattern Recognitions

• **Elective II (Information Technology [IT])**

- (i) Web Mining and Internet Technology
- (ii) Data Warehousing and Data Mining
- (iii) Management Information Systems
- (iv) Advanced Software Engineering
- (v) Data Compression & Error Correction
- (vi) Optical Networks
- (vii) Embedded Systems
- (viii) Business Intelligence

• **Elective III (Computer Application [CA])**

- (i) Bioinformatics
- (ii) Artificial Intelligence and Expert Systems
- (iii) VLSI Technology
- (iv) Speech & Natural Language Processing
- (v) Network Administration
- (vi) Cloud Computing
- (vii) Authentication & Steganography
- (viii) Software Architecture
- (ix) Green Computing

Library:

In addition to a Central Library in the University, this department has a departmental library for providing easier borrowing and reading facilities to the students.



Hostel:

Accommodation in the University hostels shall be available to the students taking admission to the course as per the University rules. Students have to bear the hostel charges and rent as per University rules.



Notes: In matters other than those mentioned above, the rules, practices and principles prevailing in the University shall be applied.

■ Admission Schedule of M. Tech (CSE) 1st Sem-2015-16:

■ Forms Distribution	: 15 th May to 29 th May, 2015
■ Last date of Receiving Application form	: 29 th May, 2015
■ List of Eligible Candidate for Written Test	: 04 th June, 2015
■ Date of Written Test	: 09 th , June 2015
■ Publication of List of Selected Candidates	: 19 th June, 2015
■ First Counselling for Admission	: 25 th June, 2015
■ Commencement of Classes	: 1 st July, 2015
■ Counselling for Vacant Seats	: 28 th July, 2015 (if required)

■ **For any Further Information Contact:-**

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