



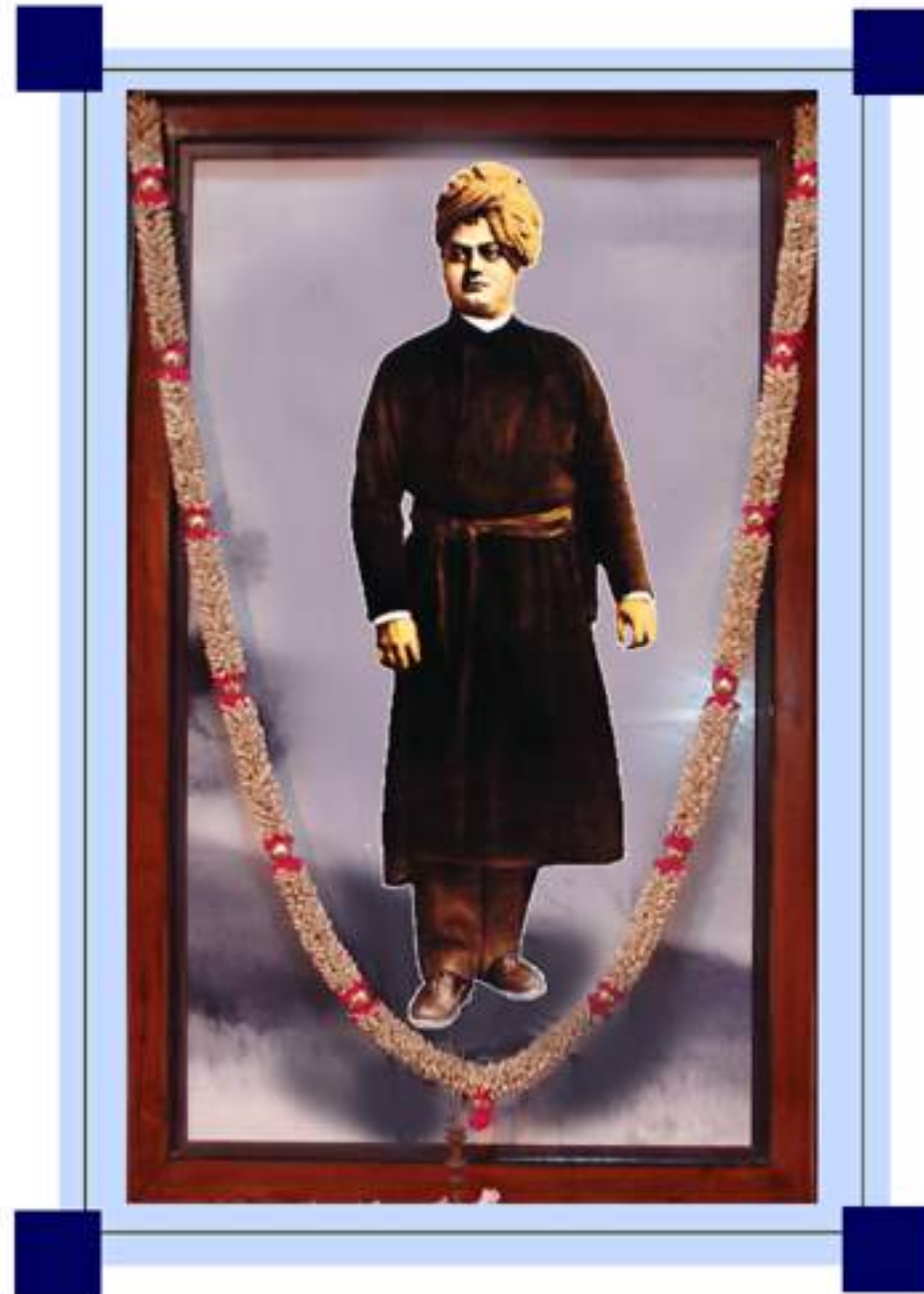
PROSPECTUS

2024-2025

A Polytechnic With A Difference



Ramakrishna Mission Shilpamandira
(An AICTE Approved Self-Financed Polytechnic)
Belur Math



What we need is to study independent of foreign control, different branches of knowledge that is our own and with it the English language and the Western Science. We need Technical Education and all else which may develop industries, so that men, instead of seeking for service may earn enough to provide for themselves and to save something against a rainy day.

1897

-- Swami Vivekananda

At A Glance



Swami Shastrajnananda
Secretary



Correspondent	Swami Vedatitananda
Principal	Swami Gunakarananda
Name & Address	Ramakrishna Mission Shilpamandira 208 G.T. Road, Belur Math Howrah — 711 202, West Bengal, India
Location	On the Grand Trunk Road • 8 km from Howrah Rly. Station • 2 km from Bally Ghat Rly. Station (Sealdah – Burdwan/ Main & Chord) • 2 km from Belur Station (Howrah – Bandel)
Telephone	(033) 2654 9381/7907 94330 12463
Email	rkmshilpamandira@yahoo.com rkmstpo@yahoo.co.in
Web Site	www.shilpamandira.org
Year of Estd.	1954
Courses	3 year full-time Diploma in • Civil Engg • Mechanical Engg. • Electrical Engg. • Electronics & Telecommunication Engg.
	Seats* 60 60 40 60
Status	A Self Financing Polytechnic (since 2007)
Recognised by	W.B. State Council of Technical & Vocational Education & Skill Development (WBSCT&VE&SD) All India Council for Technical Education (AICTE)
Admissions	• Shilpamandira Admission Test (SAT) conducted by Institute • JEXPO conducted by WBSCT&VE&SD
Services	Training & Placement (TPO), Library with over 28,500 books Learning Resources Utilisation Centre (LRUC) Testing & Consultancy, Infrastructure for Seminars & Workshops Playground (football league size) Industrial Visits
Projects	Computer Centre & Community Training Centre *available as per WBSCT&VE&SD guidelines

Our Message



Swami Gunakarananda

It was in 1954 that Ramakrishna Mission Shilpamandira came into existence as a Polytechnic offering 3 Yr. Diploma in Civil, Mechanical and Electrical Engineering and our Alumni is well placed all over the country and abroad.

During the last decade many institutes of technical education were started throughout the country and in West Bengal, competing with Polytechnic students in the job market. Also the business environment in Industry has changed substantially due to competition introduced by globalization, liberalization, privatization and modernization. This has opened up many business opportunities but also has brought in numerous technological challenges. To face these changes and challenges, the industrial workplace needs people with an attitude of perfection and a temperament of constant improvement.

In tune with changing times and challenges the Mission decided to convert the Shilpamandira into a Private Institute with effect from the 2007-08 session. (Earlier it was a Govt. of West Bengal sponsored Polytechnic). Subsequently a new Department of Electronics & Telecommunication Engineering was added in the year 2008. Our aim in this conversion is to provide a practical-oriented and quality conscious education focused on overall personality development of the students.

A technician as a Polytechnic pass student is called has a unique role in today's economy of knowledge workers. The job description is: Competent hands with a thinking head; Multi-skilled professional able to work in a team. Self or wage employment is readily available in a wide range of functional areas such as production, maintenance, installation, servicing, quality control, and marketing. However there is a talent crunch creating bottlenecks in growth and we need solutions.



Swami Vedatitananda

Industry expects a lot from a student of Ramakrishna Mission. They want young men with technical competencies, communication abilities, problem solving attitude, thorough theoretical knowledge and an overall pleasing personality, strong yet flexible, competent yet constantly learning, wholeheartedly involved in local work yet knowledgeable of global developments.

In our new environment with the help of our modernized workshops, dedicated faculty, huge infrastructure and blessings of Sri Ramakrishna we will certainly be successful in fulfilling the vision of Swami Vivekananda of a vibrant comprehensive Technical Institute answering the demands of the Industry and aspirations of thousands of young men ready to take up new challenges of prosperity in a fast changing world.

We look forward to an inspiring interaction with all stakeholders in the field.

Swami Gunakarananda
Principal

Swami Vedatitananda
Correspondent

Ramakrishna Mission Shilpamandira
1 January, 2024
Belur Math



Departments

• Mechanical Engineering

Manufacturing sector is the pivot around which revolves the prosperity of all industrialized nations. The manufacturing industry depends heavily on Mechanical Engineering. As we move into a world of increasingly pervasive automation technology, the role and scope of a technician in this discipline is being redefined. Training in Computer aided design and manufacturing, Mechatronics, Communications and control, Robotics have become essential. Our Mechanical Engineering students are provided in-depth training in traditional manufacturing technology and workshop practice including welding, turning, metal cutting, foundry, planing, shaping and milling, as also in aspects of thermal power, fluid machines, engineering drawing. Emphasis will be laid on modern technologies including non-conventional machining and computer aided designing and manufacturing.



• Civil Engineering

Civil Engineering is as old as human civilization, and is rightly considered to be the base of all branches of Engineering. As the world is faced with an explosion of population, efficient and innovative technologies are needed for infrastructure development in the various sectors such as manufacturing, housing, transportation, water resource management, and environmental engineering. The areas in which students will be given proficient training including Soil mechanics, Surveying, Engineering drawing, Building materials, Structural design including RCC, Water management, Costing and valuation, and Transportation engineering. Also Civil Engg. students have lot of scope for self employment in construction, surveying, structural design, detailing and advance training is given for such purpose.



• Electrical Engineering

Electrical energy is the driving force that runs industries. As manufacturing world moves forward bringing in greater incidence of precision equipment at all levels of society, the demands for power and its control & regulation are also increasing. New generation electrical technicians need to be competent in dealing with modern machines, drives, power electronic converters, microprocessor & programmable controllers. The students of the department will be provided rigorous training along with theoretical background in AC machines, DC machines, Industrial Drive Systems, PLC Controllers, Switchgear, Power Generation, Transmission and distribution, Analog, Digital and Industrial Electronics and Instrumentation.

• Electronics & Telecommunication Engineering

Communications and signal processing technologies emerged as important fields of activity over a hundred years ago. With the advent of solid-state electronic devices after the 2nd world war, these technologies got transformed and created a whole new industry. A wide range of instruments and appliances are being created both for stand-alone applications, as well as for enhancing the scope and precision of conventional engineering techniques. Embedded systems working in real-time control mode have started to penetrate into all branches of engineering. Today's Electronics and Telecommunications engineers need to possess skill and knowledge in dealing with analog and digital systems, communication engineering, embedded systems, industrial electronics, and networking. Students of the department are provided rigorous practical training along with necessary theoretical background in analog and digital electronics, consumer electronics, microprocessors and microcontrollers, microwave and antenna, automation and telecommunication.

Curricular Activities



In the emerging world of technology, technicians are getting greater freedom, and responsibility, to take independent on-the-spot decisions to perform multifaceted tasks. A deep understanding of the fundamentals of science and engineering is the foundation which gives the necessary background to assess the different situations and take independent technical decisions. The only way to obtain depth and competence in technical skill is through a thorough drilling in labs and workshops. We give individual attention to ensure that each student gets comprehensive hands-on training in the labs and workshops, the necessary theoretical inputs as well as the attitude and aptitude for continuous learning which is invaluable in the fast changing technological scenario of today's world. Our Science & Humanities Department provides mentorship to first year students in realizing their potential & unfolding their personality towards success.

Challenges draw the best out of an individual. There is the thrill of problem-solving and the pride of victory in overcoming difficult situations. Even in educational institutions, students manifest their creative talent and consolidate the skills learnt when confronted with challenging Projects. Reverse engineering is used as a learning-aid as also the starting point in exploration for innovative improvements. Time-management, material management are skills truly learnt only in a work-environment. Such professional skills are the essence of competence. Each semester, students may be required to participate in Industry standard projects under simulated work conditions for their competency enhancement.



Computer Lab



Reading Room



Corporate Training

Unlike in a written test where time is available for thinking, a technician in the field has to take on the spot decisions and be able to explain the rationale involved in his decisions. This aspect of thinking on one's feet can be best developed by participating and presenting one's work in seminars.

Technical seminars will be held each semester, where students deliver presentations on topics decided in consultation with the faculty.



Value Orientation



Online Test

Co Curricular Activities

A strong personality is the basis of all excellence. To have deep convictions and the strength to follow them; to be able to work in a team, adapting to situations while not compromising on the fundamental values; to have professional pride and self-respect, and the necessary quality-consciousness and vision. All these things must be inculcated and developed through conscious effort. Towards that end it is necessary to do regular introspection and orientation towards the Source of all energy, latent in the heart of each one of us. This is achieved through prayer and meditation sessions every day. Meditation not only clears one's doubts and makes mind focused, it also gives a sense of well-being and strength born of character.

Along with technical skills, soft-skills are needed for successful careers in today's workplace. These include verbal as well as written communication, involvement and productive participation in group discussions, initiative, and, body language and attitude that put colleagues at ease and instill confidence in the customer. Students will be sensitized on a variety of these aspects so that they would be able to face the world boldly and with assuredness.

Collaborative activities such as Group discussions will be conducted for understanding group dynamics and developing Team Building skills. Students will be required to participate in co-curricular activities such as Sports, Debates, Extempore, Mock Interview, Quizzes, Seminars, Online Exam, General & Technical Aptitude Test etc. organised for sake of their overall development.





Guided Visit

Practical Engineering is a strong combination of Science, Technology, Management, and Economics. All products and services must be financially viable, and the skill of the engineer lies in balancing and optimizing on all fronts. These are essentially entrepreneurial skills. Through workshops and design contests, students will be trained in entrepreneurial and intreprenurial skills, so that they may blossom into irreplaceable professionals either in business or in service.

Performance Report of every student is maintained by our Training Placement Officer (TPO) every year & is presented in a Report Card to visiting Industries for Placement.



Nabin Baran & Viswakarma Puja



Student Orientation

Rules & Regulations

• Eligibility

Only Male students (under 21 yrs. Age) having passed Madhyamik (or equivalent) can be admitted based on Rank in Admission test.

• Session Fees

Total session fee for each year payable in two instalments, at the beginning of each semester as follows:

	SAT Admission	JEXPO Admission
Semester Tuition Fee	₹ 15,000	₹ 9,000
Semester Development Fee	₹ 5,000	₹ 5,000
Student Activities Fee	₹ 5,000	₹ 5,000

Fees are accepted between 11 a.m. and 2 p.m. in cash counter on all working days except otherwise notified.

Payment can be made through:

1. SBI Collect Portal (<https://www.onlinesbi.com/sbicollect>) using UPI, Net Banking or Rupay Debit card, or
2. Demand Draft drawn in favour of "Ramakrishna Mission Shilpamandira" payable at Belur Math.

Defaulters are charged a fine of ₹ 10 per day and are not entitled for attendance during the period of default.

• Admission Charges

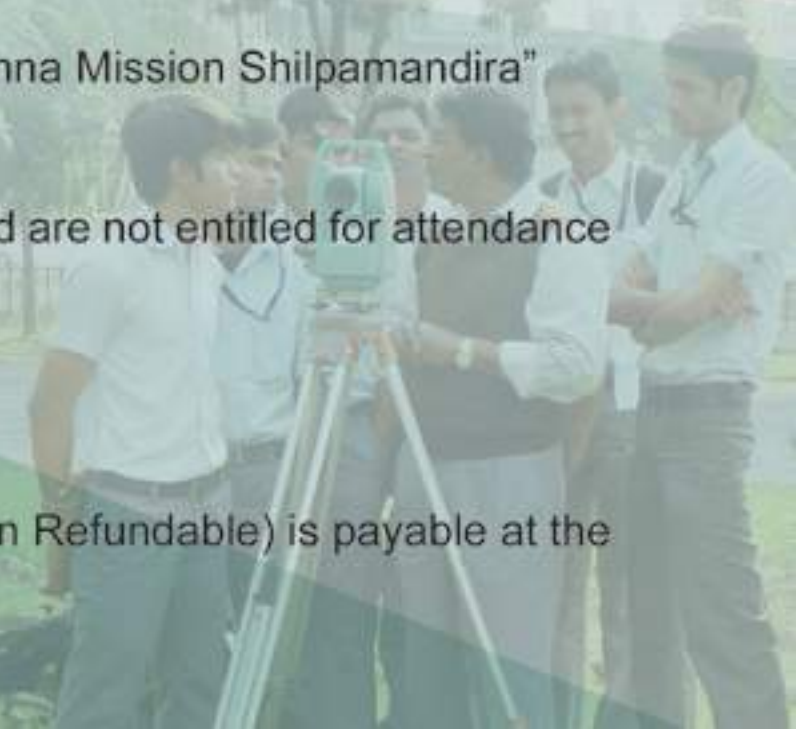
A one-time Admission Charge of ₹ 10,000 (Non Refundable) is payable at the time of admission into 1st Semester.



Practical Lab



Drawing Hall





• Expenses On Equipment

Students on joining the Institution have to spend approx. ₹ 2,000 to buy Drawing board, T-square, Drawing instruments, text books and other necessary articles. For the second and third year classes each student will have to spend a further sum of approx. ₹ 2,000 each semester on text books and equipment's. Further they will have to undertake educational tours and/or attend survey camp at their own expenses.

• Scholarships & Prizes

The institution does not guarantee scholarship to any student. However, a limited number of merit-cum-means scholarships and awards are offered to students each semester.

• Identity Card

A Multipurpose identity card will be issued by the institution which should be produced on demand. Loss of the Multipurpose card must be immediately reported to the Office and a duplicate card obtained on payment of ₹ 100.

• Attendance

100% attendance is obligatory in all classes and co-curricular activities. Permission to appear in WBSCTE&VE&SD exams will be issued only to students having at least 80% attendance. Irregularity in attendance will be communicated to the parents. Students found to be unsuitable due to uninformed continued absence are liable to be removed from the Institution rolls.

• Uniform

The College has a uniform for all the students. A student not wearing proper Dress Code will not be allowed to enter in the premises.

*** Institute does not offer hostel facilities.**



Rules & Regulations

• Workshop And Laboratories

Students are not allowed to enter a Workshop or Laboratory in loose garments or without shoes. Students are advised to act up to the instructions given in the laboratories and workshops from time to time.

The institution does not take any responsibility for any accident, loss or damage sustained by a student in course of his training.

• Examination & Continuous Internal Assessment

To monitor the extent of comprehension of students, continuous internal assessment will be conducted. Attendance at all tests held by the Institution is compulsory. Students must abstain from adopting any unfair means in the examination. Re-exam will be conducted for students failing in any subject. However, such students may not be considered for campus placement.

• Discipline

The following are some of the important rules of institution.

- i) The students must attend the prayers punctually and take seat in their respective classes before the class bell rings.
- ii) When a Lecturer/Instructor is absent or unable to take his classes students must maintain strict order among themselves so as not disturb other classes. They are not to leave the classroom without ascertaining alternative arrangements made.
- iii) In case of sickness, the guardian of the student concerned is required to report to the Office immediately. All leave must have previous sanction of the college authorities. Students absenting themselves from classes without permission will be subject to disciplinary action.
- iv) Students must in their deeds and words show regard to their Alma Mater, teachers and superiors.



Survey Camp



Digital Library



Institute visit by CP Gurnani,
MD & CEO,
Tech Mahindra

v) Ragging is strictly prohibited.

vi) Misuse of Railway concession is punishable by fine.

vii) Use of mobile is prohibited during class hours.

The above rules or any other rules as may be framed from time to time by Institution should be strictly adhered to. Non-compliance could result in disciplinary measures ranging from fine, suspension, to expulsion from the Institution. The authorities reserve the right to alter the rules and regulations at any time as they deem fit and this will be binding on all concerned.

"Knowledge can only be got in one way, the way of experience; there is no other way to know that." – Swami Vivekananda

Swami Vivekananda Temple



Prize Distribution



Academic Schedule

• Semester System

Odd Semester: June to November (Exams in December)

Even Semester: January to April (Exams in May)

• Class Hours

Monday to Friday : 10:00 — 17:00 hrs.

Saturday : 10:00 — 13:30 hrs.

• Course Contents

Syllabus set up by WBSCTE&VE&SD will be broadly followed

• Exams

Semester end (December & May)

• Holidays

As declared every year

• Training & Placement

Field Trips, Industry visits & Seminars arranged as per College Schedule

Our students are much sought after by the industry because they get rigorous training in technical skills as well as personality development needed at workplace. Students are also sent for Practical Training in 2nd and 3rd year at reputed companies to acquaint them with modern industrial practices. The institute has outstanding campus recruitments record with 100% placement assistance to eligible students in the past several years. Some of the past recruiters include:



Campus Interview



• Capgemini

• JK Tyre

• Shapoorji Pallonji

• Websol

• Jindal Stainless Steel

• Voltas

• L&T

• ITD Cementation

• Addverb Technologies

• Merino Industries Ltd.

• Tech Mahindra

• Volvo

• TCS

• Tata Steel

• Tata Motors

• Tata Hitachi

• Blue Star

• Kaynes Technology



Glimpses



"In this Math, along with the cultivation of philosophy and religion, a full-fledged technical institute will have to be established. The power that will have its rise from here will flood the whole world and turn the course of men's lives, providing a life-giving impetus to the remotest corners of the globe. This is our faith and we have girded up our loins to achieve this very objective to the best of our capacity."

Year:1897

-- Swami Vivekananda



Sri Ramakrishna



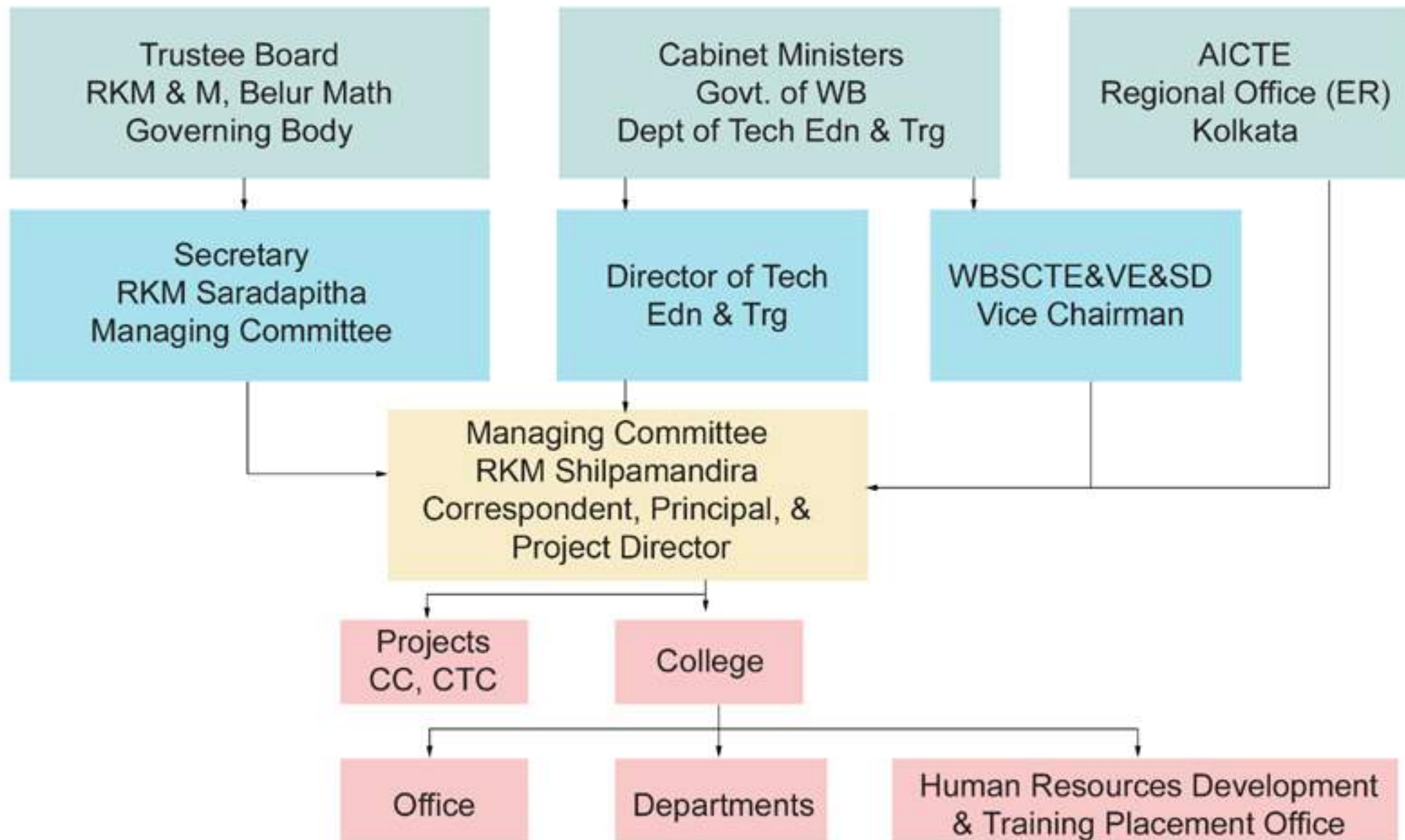
Sri Sarada Devi



Sri Ramakrishna Temple, Belur Math

- "A Symphony in Architecture Ramakrishna Temple Belur Math"
-- by Swami Tattwajnanananda
- "Hemanta Smaraka" Reminiscences of a Dynamic Monk of Ramakrishna Order

Organisational Structure



Managing Committee Members

• Dr. Sparshamani Chatterjee (Deceased on 26 August 2023)	President	• Swami Divyagunananda	Member
• Dr. Tarasankar Banerjee	Vice-President	• Swami Sarvottamananda	Member
• Swami Shukadevananda	Secretary	• Sri Birenjit Kumar Paul	Member
• Swami Vedatitananda	Correspondent	• Dr. Gautam Bhattacharya	Member
• Swami Gunakarananda	Principal	• Director of Tech. Edn. & Training / Nominee	Member
• Swami Suvidyananda	Treasurer	• CAO / Nominee (WBSCT&VE&SD)	Member
• Swami Gunindrananda	Member	• Regional Officer / Nominee (AICTE)	Member
		• Works Manager (HINDALCO, Belur)	Member



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Approved by : All India Council for Technical Education (AICTE)

Affiliated to : West Bengal State Council of Technical Education and Vocational Education and Skill Development (WBSCT&VE&SD)

