

**CAREER OPPORTUNITIES
AND
HIGHER EDUCATION**

Dr.S.PRABHAKARAN
DEPARTMENT OF PHYSICS
JAMAL MOHAMED COLLEGE
TRICHY-20

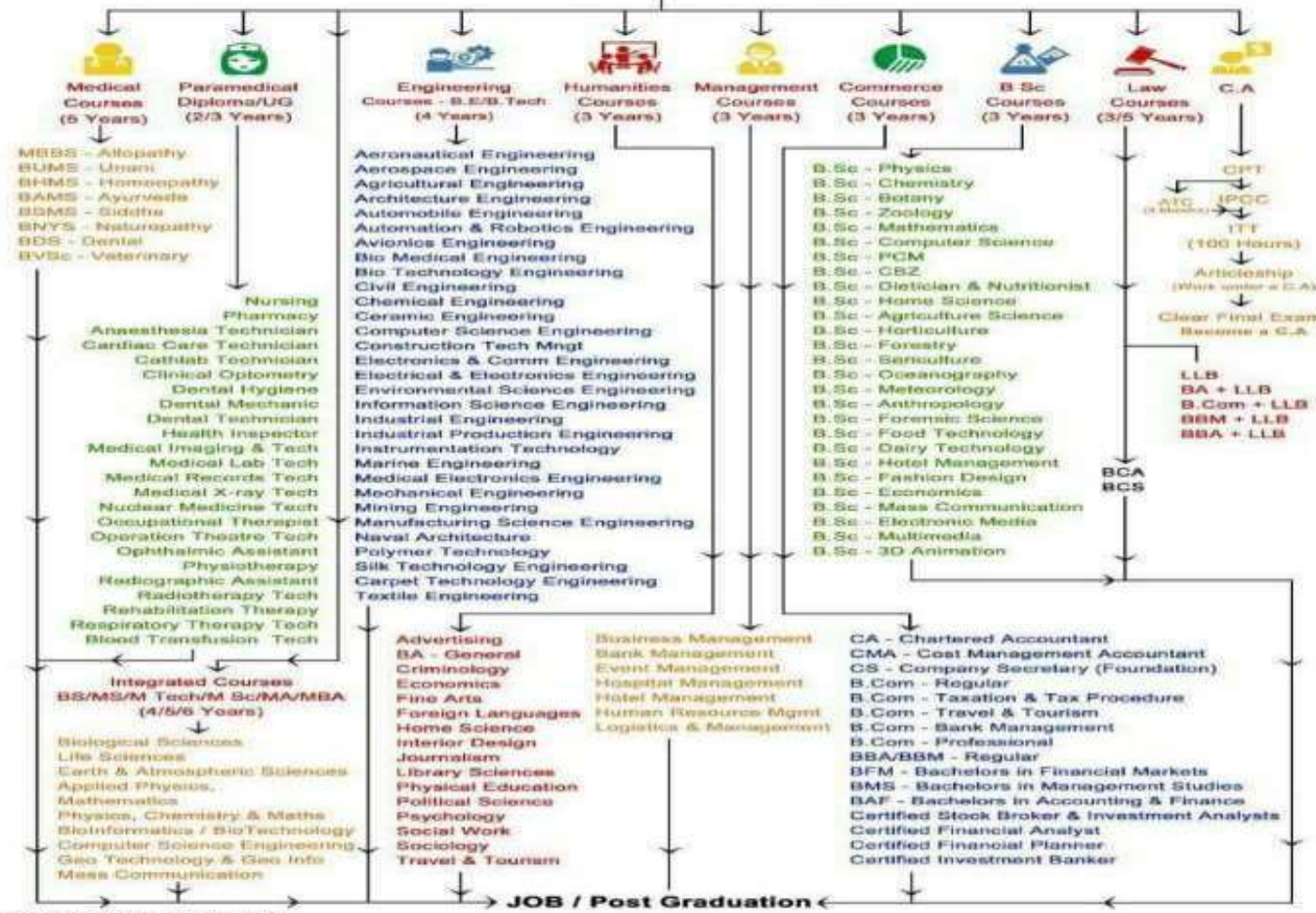
Student Life Be Like



From Nursery To 10th

From 10th To 12th

After 12th



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Please Pass This Chart..
For 10/12 Std Students..
To Plan Their Further Studies..



What next after B.Sc / M.Sc
Physics ?

Careers in Physics

- Scientist
- PG Teacher
- Asst.Professor
- Production Manager
- Senior observer
- Technical Supervisor
- Research Asst.
- Engg.Asst. (BEL)
- Techl. Asst.Grp-B
- Quality check/control
- Electro-diagnostic Asst
- Field Inspector
- Project Asst.
- Purchase Asst.
- Computer operator
- Lab Asst./ Techn.(ECG)
- Asst.(Testing)
- Examiner– NDT etc
- Safety officer
- Sales person
- Pharma,Health,F&B

Job Openings

- Teaching in High school or Elementary school
 - Teach in local community college
- Technician in a Laboratory, where the Govt. or industry
- Sales Executive for Technical industries
- Operating Electrical power plants
- Monitoring radiation in scientific Instruments
- Laboratory demonstrators in colleges/Univ's.

Higher Education

PG Level

- M.Sc.Physics-Electronics
- M.Sc Medical Phy. at Anna univ. chennai, Bharathidasan univ. Trichy, Bharathiar univ. kovai (lab techn)
- M.Sc Phy- NIT, Trichy thro' JAM entrance exam
- M.Phil
- MCA, M.Sc (IT), MBA
- **M.Tech, ME, Radiation safety course**
- **Ph.D- Research.**

Central & State Govt.jobs

- ISRO, BARC, DRDO, IGCAR, CECRI, NPCL, NIC – multitasking – instrumentation, clerical, office asst. etc.,
- SSC, RRB, RRC, UPSC, IBPS, RBI, SBI, SSB, BHEL IOCL, etc
- TNPSC, TRB

Student programs at Indian Institute of Astrophysics

- Summer Programs with visiting internship for 3- 6 months after B.Sc., M.Sc. with a stipend of Rs.3000/- pm
- Integrated M.Sc. (Physics) with a stipend of Rs.10,000/- pm and PhD program with a stipend of Rs.28,000/-pm for JRF (1 year course work in Physics and Astrophysics) and Rs.31,000/- pm for SRF - selection on all India basis through written tests and interviews – tied up with Pondicherry Central University and IGNOU, New Delhi. Total of 50 students now
- Integrated M.Tech - Ph.D (Tech) program with Calcutta University. 2 sem at CU, 2 at IIA
- **STUDENT PROJECTS SCHEME - (www.tanscst.nic.in) PG (all Sciences) maximum grant of Rs.10, 000/-.**
- Summer Fellowship Programme at IIT, Chennai, 2-3 months duration with a stipend of Rs.6000 pm

PhD program in Astrophysics

Name of the Institution	PhD program	Eligibility	Any examination to be passed	Stipend
Indian Institute of Space Science and Technology, Trivandrum www.iist.ac.in	Earth and Space Sciences (ES)	BE, B.Tech in ECE, EEE, M.Sc. Physics	Written Test and Interview will be held at Thiruvananthapuram twice in an year	Rs 25000/-pm
ARIES, Nainital IIA, Bangalore IISc, Bangalore IISER MOHALI, Mohali IISER PUNE, Pune IUCAA, Pune JNCASR, Bangalore NCRA, Pune PRL, Ahmedabad RRI, Bangalore S NBNCBS, Kolkata BARC, Mumbai UGC-DAE CSR, Indore HRI, Allahabad IGCAR, Kalpakkam IMSc, Chennai IOP, Bhubaneswar IPR, Gandhinagar RRCAT, Indore SINP, Kolkata VECC, Kolkata	Astrophysics Instrumentation Optics Optoelectronics DSP, Image Processing Engineering Physics	BE, B.Tech in ECE, EEE, CS, M.Sc. Physics	JEST (Joint Entrance Screening Test - will be held twice in an year in major cities of the country), Also separately can apply to the respective institute OR A Score in one of the tests like GATE, CSIR, NET	Rs 18000/-pm but vary from 7500-20000 per annum (Likely to be revised upwards by 40%)

COMPANIES VISITING OUR CAMPUS

- Cognizant Technology Solution (CTS)
- Wipro
- Tata Consultancy Services
- HCL
- SRV School
- NICE Education
- Amazon pay, Vdart etc
- Mega Job offers conducted by Private Co's-
common Public

COMPANIES IN TRICHY

- Scientific publishing services (SPS) , an E – publishing company
- DSM soft
- Super Quality Services- NDT based technical jobs
- KIRND Institute of Research and Development Pvt Limited

தமிழ்நாட்டிலேயே வெறும் 4 அல்லது 5 கல்லூரிகளில் மட்டுமே B.A. டிபென்ஸ் என்னும் படிப்பு உள்ளது. இதைப் படித்தால் Group 1 examல் எளிதில் வெற்றியடைந்து Sub Registrar, RTO, DSP, நகராட்சி கமிஷனர் போன்ற நல்ல வேலைகளில் சேரலாம்...

11:14

அக்ரி பாடம் பயில விரும்புபவர்கள் திருச்சி அருகிலுள்ள கல்லூரிகளில் சேர முயல்வது நன்மையளிக்கும். ஏனெனில், இக்கல்லூரிகளில் டொனேஷன் கிடையாது....

11:15

சென்னையிலுள்ள CMI ல் B.Sc. Maths or Physics பயின்றால் உங்களுக்கு மாதம் ரூ. 5000/- உதவித் தொகையும், மேலும் கூடுதலாக வருடத்திற்கு ரூ. 20,000/- உங்களுக்குத் தேவையான பாட சம்மந்தமான பொருட்கள் வாங்குவதற்கும், ஆகமொத்தம் ஒரு வருடத்திற்கு ரூ. 65,000/- உதவித் தொகை கிடைக்கும்.

11:15

திருவாரூரில் மத்திய பல்கலைக் கழகம் (Central University) உள்ளது. இதில் பயிற்சிக் கட்டணம் மிகவும் குறைவு. மேலும், இப் பல்கலையில் பயின்றால், மேற்படிப்பிற்காக நீங்கள் வெளிநாடுகளில் உள்ள யூனிவர்ஸிடி சென்றால் எவ்வித நுழைவுத் தேர்வும் எமக வேண்டியதில்லை...

can Republic, Chad, Somalia, Niger and Mali face the worst odds.

In the report assessing the capacity of 180 countries, India stands 77th (sustainability index) and is at 131st position on a ranking that measures the best chance at survival and well-being for children.

The report says although India has improved in health and sanitation, it has to increase its spending on health. It also cautions that

children and adolescents who are obese has increased from 11 million in 1975 to 124 million in 2016 – an 11-fold increase.

The only countries on track to beat the CO₂ emission targets by 2030, while also performing fairly (with in the top 70) on child flourishing measures are Albania, Armenia, Grenada, Jordan, Moldova, Sri Lanka, Tunisia, Uruguay and Vietnam. "Despite improve-

ment health over the past 20 years, progress has stalled and is set to reverse," said Helen Clark, co-chair of the Commission, adding that an estimated 250 million children under five in low- and middle-income countries are at risk of not reaching their developmental potential. Moreover, every child worldwide now faces existential threats from climate change and commercial pressures.

While the poorest coun-

sure healthy lives for children, carbon emissions – disproportionately from wealthier countries – threaten the future of all children, states the report. "This report shows that the world's decision makers are, too often, failing today's children and youth: failing to protect their health, failing to protect their rights and failing to protect their planet," said Dr. Tedros Adhanom Ghebreyesus, Director-General, WHO.



National Informatics Centre

Ministry of Electronics and Information Technology,
GOVERNMENT OF INDIA

A-Block, CGO Complex, Lodhi Road, New Delhi - 110 003

INVITES APPLICATION FOR THE FOLLOWING POSTS

Advt No. NIELIT/NIC/2020/1

Sl. No	POST	TOTAL VACANCY	ELIGIBILITY
			Degree & Field / Specialization [single or in combination amongst the below only]
1.	SCIENTIST - 'B' Group 'A' (S&T) Level - 10; (Rs. 56100 - Rs. 177500)	288 (UR-119, SC-43, ST-21, OBC (NCL)-77, EWS-28, PWD-12)	B.E. / B.Tech / DOEACC B-level OR AMIE/ GIETE OR M.Sc. OR MCA OR ME / M.Tech OR M.Phil Electronics, Electronics and Communication, Computer Sciences, Communication, Computer and Networking Security, Computer Application, Software System, Information Technology, Information Technology Management, Informatics, Computer Management, Cyber law, Electronics and Instrumentation
2.	Scientific/Technical Assistant - 'A' Group 'B' (S&T) Level - 6; (Rs. 35400 - Rs. 112400)	207 (UR-86, SC-31, ST-15, OBC (NCL)-55, EWS-20, PWD 09)	B.E. / B.Tech / M.Sc. / MS / MCA Electronics, Electronics and Communication, Electronics & Telecommunications, Computer Sciences, Computer and Networking Security, Software System, Information Technology, Informatics.

Candidates are advised to apply through the portal at <https://www.callcut.nielit.in/nic> for further information including Eligibility, Age Limit, Reservations, mode of recruitment etc. Detailed advertisement is also available at :

a) nielit.gov.in (b) meity.gov.in (c) recruitment.nic.in (d) ccdiseabilities.nic.in

Applications for the above posts will be received only in online mode.

Application portal will be opened from 26/2/2020 10:00 A.M

CLOSING DATE OF APPLICATION IS 26/03/2020 5:00 P.M



**INDIAN INSTITUTE OF INFORMATION TECHNOLOGY,
DESIGN AND MANUFACTURING (IIITDM) KANCHEEPURAM,**
(An Institute of National Importance under MHRD, Govt. of India)
Melakottaiyur, Vandalur - Kolambakkam Road
Chennai - 600 127, Tamil Nadu, India.

FACULTY RECRUITMENT

Advt.No.IIITDMK/R/1/2020 dated: 23.02.2020

IIITDM Kancheepuram, located at Chennai (25km from airport) invites online applications for various faculty positions (Professors, Associate Professors, Assistant Professors Grade I & II) under four tier flexible structure for the following streams.

- Computer Science and Engineering
- Electronics and Communication Engg.
- Mechanical Engineering
- Design
- Mathematics, Physics & English

The applicants must have consistent academic record from reputed institutions with a commitment to teaching, research and product development.

Online application and other details are available at www.iiitdm.ac.in.

The last date for submission of online application: 27.03.2020

Director

CSR Research Facilities at a Glance <http://www.csr.res.in/>

Spectroscopic techniques

Photo-electron spectroscopy (XPS, UPS, AES)

[Secondary Ion mass spectroscopy \(SIMS\)](#)

Inverse Photo-emission spectroscopy (IPS)

[Electron Spectroscopy for Chemical Analysis \(ESCA\)](#)

[Mossbauer spectroscopy \(2K/8T\)](#)

[Micro Raman spectroscopy \(LT\)](#)

[UV-Visible spectroscopy](#)

[FTIR](#)

[Dielectric Spect: Broadband Impedance Analyzer](#)

Scattering techniques

[X-ray diffraction](#)

[High-resolution x-ray diffraction](#)

[Energy-Dispersive-X-Ray-Fluorescence analysis](#)

[Light Scattering technique](#)

Microscopic Techniques

[Transmission Electron Microscope with EDAX](#)

[Scanning Electron Microscope \(SEM\) with EDAX](#)

[Scanning probe microscope \(SPM\)](#)

Nuclear Techniques

[Nuclear physics and Nuclear technique based condensed matter facilities](#)

Thin film deposition facilities

[UHV e- beam evaporation](#)

[Ion beam sputtering](#)

[Laser ablation system](#)

[Magnetron sputtering](#)

[Langmuir-Blodgett technique](#)

Magnetic measurements

Vibrating sample magnetometer (VSM; 2K/14T)

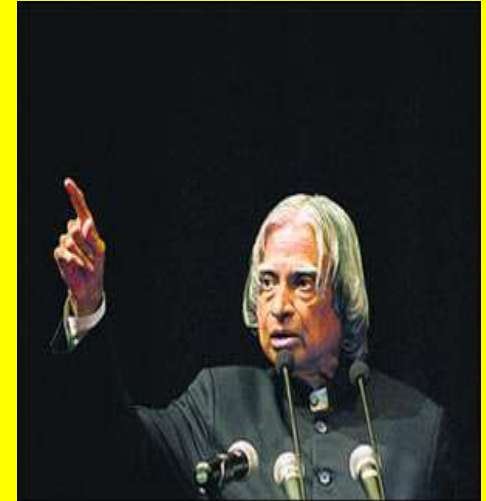
SQUID magnetometer (2K-320K; 7T) ; AC Susceptibility (80-300K/100e)

Magneto-Optic Kerr effect (MOKE) ; In-situ MOKE ; VSM SQUID (2K/7T)

BEAUTIFUL MIND

**“ Don’t dream about your beauty,
It will spoil your duty,
But, dream about your duty,
It makes your life very beauty.”**

**“ Innovations come from Creativity
Creativity comes from beautiful mind.”**



- Quotations offered by **APJ Abdul Kalam**

THANK YOU