



B.S. Abdur Rahman
Crescent

Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956
GST Road, Vandalur, Chennai 600 048

Department of Aerospace Engineering

offers

M. Tech.
in

Avionics

Full-time (2 years)

..... Aerospace
Engineers make aircraft

Armament Engineers
make weapons to
destroy those aircraft

&
Avionics Engineers help
both

Institute Profile

BSA Crescent Institute of Science and Technology, a Deemed to be University in Chennai, is a 4-star rated QS World University Rankings varsity, with over 39 years of academic excellence.

We are the 3rd varsity to be awarded the QS 4-Star rating, and have 20 programmes accredited by NBA under Tier 1 of the prestigious Washington Accord.

The Institute offers B.Tech, B.Arch, B.Des, B.Pharm, LLB, B.Sc, BCA, B.Com, BBA, BA, M.Tech, MBA, MCA, M.Sc, MA and Ph.D degree Programmes.

Programme Overview

- ❖ *M.Tech. Avionics is a two-year postgraduate program*
- ❖ *Will provide students with the technology knowledge to design, develop, build, integrate and test a digital Avionics system for aircraft*
- ❖ *Students will develop knowledge through a range of specialist modules and in-depth project work*
- ❖ *Students will gain familiarity with the cockpit of an aircraft, which is a typical location for avionics equipment, including control, monitoring, communication, navigation, weather, and anti-collision systems*
- ❖ *The majority of aircraft power their avionics using 14 or 28 volt DC electrical systems; however, larger, more sophisticated aircraft (such as airliners or military combat aircraft) have AC systems operating at 400 Hz, 115 volts AC*

Hand's on

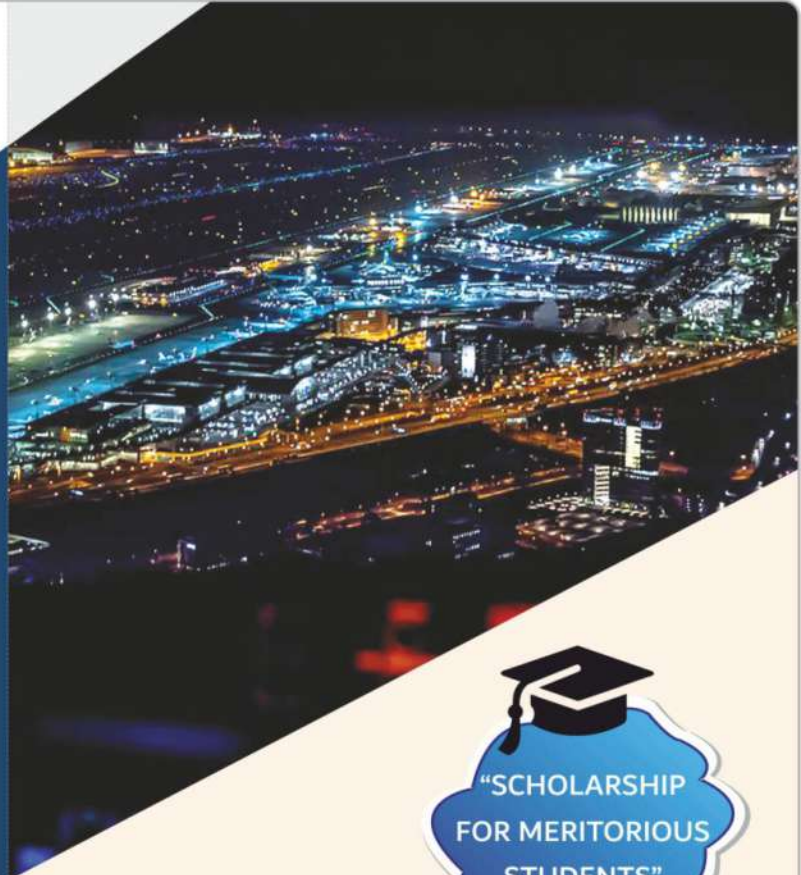
Software

- ❖ CREO 3 (pro/E)
- ❖ Matlab V8 R 2013A
- ❖ ANSYS V18
- ❖ LabView
- ❖ UG NX 11.0
- ❖ LS-DYNA 971-R7
- ❖ Master CAM 9.1



Hardware

- ❖ Mil –Std-1553B Data bus
- ❖ Arinc 429 Data bus
- ❖ AFDX Data bus
- ❖ Fully Autonomous Hex copter with FPV
- ❖ Wind tunnel Facility for Drone testing
- ❖ Drone Modelling Lab
- ❖ PIXhawk and APM Autopilot
- ❖ Mentoring Research



Eligibility

- ❖ Any Bachelor degree B.E./ B.Tech or equivalent with at least 60% marks in aggregate

Facilities

- ❖ Wi-Fi enabled campus
- ❖ Modernized library with e-books & e-journals
- ❖ Well-established separate hostel facilities for men and women
- ❖ Excellent transport, sport facilities, gym, bank, canteen, book-shop, etc

Students Testimonials



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I had the privilege to be in the first batch of M.Tech (Avionics) program at Crescent institute. I found the academic atmosphere at Crescent is very conducive to learning. Apart from the robust curriculum with internship and adjunct faculty handling industry - oriented courses, numerous hands-on-training on drone technologies were incredibly valuable. I'm also grateful to the faculty members for being extremely supportive and providing me with a plethora of opportunities to enhance and showcase my skills.

Puveeyarasu V
(2019 - 2021 Batch)

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I would like to express my sincere gratitude to B.S. Abdur Rahman Crescent Institute of Science & Technology for providing guidance to take up the master degree in Avionics, after my bachelor degree in the same institute. The institute had provided me the best possible platform and infrastructure to excel in my career interest. The expert faculty members made me industry ready. During my time at the institute, I was introduced to various live events and knowledge-based Programs to improve my technical skills; CubeSat workshop was one of the events which provided me with lot of information.

Nagoor Meeran A
(2020 - 2022 Batch)

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I am really proud to be a Crescentian; it was my great luck and fortune to be a part of Crescent institute. It's a place where you can find wonderful atmosphere and multi-cultural activities. This place has taught me lots of life lessons; I have learned necessary skill sets and acquired abundant knowledge. The faculty members have always motivated us to have a positive attitude and pushed us really hard to work towards our goals. It's a wonderful place to begin a career.

Savitha Amaravel
(2020 - 2022 Batch)

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It has been a great journey in Crescent institute. From the very beginning, the institute and especially the amazing teachers have been successful in engraving in us the sense of responsibility, curiosity and the fire to go beyond our capacity. The internship in top companies where I have gained practical knowledge helped me in getting interview calls. The seeds of where I am today have been planted there and I am grateful for that. With the state-of-the-art lab facilities and the best teachers, the future of the students is in great hands and they are on the right path to becoming successful leaders in whichever field they go.

Nanda Kumar G
(2020 - 2022 Batch)

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Placement Opportunities



Honeywell



**Rockwell
Collins**



Industry Rankings



CGPA 3.33 / 4.00
From 08.02.2021 to 07.02.2026



Ten Programmes Accredited
under TIER - I Category



Engineering Rank: 112
University Band: 151-200
(2021)



QS Asia University Ranking 2022
601-650

Salient features

- Contemporary teaching methods
- Industry-ready laboratory practices
- Specialized labs
- Attachment with Industry for project work
- Mandatory Industry Internship
- Flexible time schedule for Industry participants
- Mentoring Research
- Opportunity to work on Consultancy, Testing / Research Projects
- Industry-oriented Curriculum
- Partial delivery of courses by Industrial experts
- Multiple ICT-based teaching-learning pedagogies

Admission Help Desk

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Department Coordinator

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