



NATIONAL COLLEGE

(Autonomous)

(Recognized as College with Potential for Excellence by UGC)

(Nationally Re-Accredited at 'A' Level by NAAC)

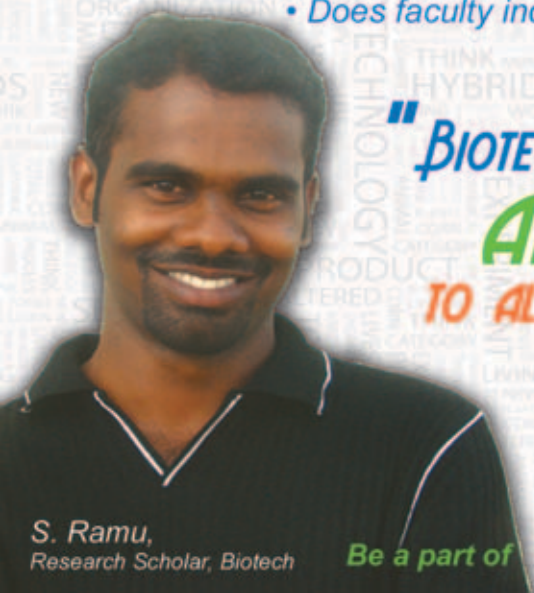
(Co-Educational Institution)

Tiruchirappalli - 620 001, Tamil Nadu, India.

**ADMISSIONS
OPEN FOR
M.Sc. Biotech.
2015**

HOW TO CHOOSE A COLLEGE FOR M.Sc., BIOTECHNOLOGY ?

- Does the College provide 24/7 laboratory facility?
- Will You be trained in Fermentation Technology?
- Does the College provide Hands'-on training in Animal Cell Culture?
- Does the curriculum help to clear UGC-CSIR JRF/NET exam?
- Does the College have industrial tie-up for job assurance?
- Does the College possess high-end instrumentation facility?
- Do you get opportunity for dual degree programmes?
- Will you get opportunity to learn from International faculty?
- Do you get opportunity to present papers abroad?
- Will you have access to e-library?
- Do you get counseling to choose your career?
- Do you get exposure to research activities through projects?
- Does faculty indulge in research with funded projects?



S. Ramu,
Research Scholar, Biotech

**"BIOTECH @ NATIONAL COLLEGE
ANSWERS YES
TO ALL THE ABOVE QUESTIONS"**

Call a Counselor today at
9786425226 / 9514872917
Or visit www.nct.ac.in/biotech

Be a part of **96 years** legacy in higher education

BIOTECH @ NATIONAL COLLEGE

HIGHLIGHTS OF THE DEPARTMENT

INFRASTRUCTURE & FACILITY

- 24/7 laboratory facility for continuous learning process
- Exclusive laboratory facility for Animal Cell Culture & Fermentation Technology
- Well equipped Information & Communication Technology lab
- Common, High-end Instrumentation Facility with SEM, GC-MS, HPLC, FT-IR, AAS, Fluorescence & UV-Vis Spectrophotometry, Lyophilizer etc.

TEACHING & TRAINING

- Practical-oriented & hands'-on training in core areas of Biotechnology including Fermentor operations and Animal Cell Culture
 - Holistic syllabi to help clear competitive exams like UGC NET/JRF
- Curriculum to orient students in research - summer, mini-projects & 6-month project
 - Guidance to publish research papers in journals, to initiate research career
 - Special training to present papers at National & International Conferences
 - e-library for stress-free learning and communication development
 - Opportunity to learn from International trainers through live Webinars

CAREER-ORIENTED DUAL DEGREE

National College is the only College that offers Career Oriented Add-On Programmes

- Bioprocess Technology (UGC-Innovative Programme)
- Clinical Research Management & Regulatory Affairs (Industrial Tie-Up)

PLACEMENT

- 100 % placement on successful completion of PG Diploma programme in Clinical Trial Management & Regulatory Affairs offered by the Department of Biotechnology through Industrial-Institutional partnership

FACULTY

- Faculty from all major areas of life science and specialized in Fermentation Technology, Animal Cell Culture, Plant Tissue Culture & Bioinformatics
- Faculty will enable you to attain your true potential through Career Guidance and Counseling

HOSTEL

Dr. Senthil Kumar Sadasivam

Associate Professor, Biotechnology

Recipient of Fast Track Scheme for Young Scientist, DST, India &

Major Project from UGC, New Delhi

- Separate Hostel facility for men and women within campus



DARE TO THINK BEYOND UNIVERSITIES !

The curriculum of M.Sc., Biotechnology @ National College is unique and unmatched across other Colleges / Universities in the State/Country, shattering the regular pattern of programme structure. The syllabi has been designed completely based on UGC-CSIR Syllabi to give a winning edge to candidates to qualify JRF examinations, inculcating competitive skills and employability.

FIRST SEMESTER

Cell Biology
Biochemistry & Biophysics
Microbiology
Immunology
Molecular Biology
Mathematics for Biologists
Laboratory - I

SECOND SEMESTER

Molecular Genetics
Developmental Biology
Enzymology
Genetic Engineering
Bioinstrumentation
Biostatistics
Laboratory - II

THIRD SEMESTER

Bioprocess Technology
Downstream Processing
Plant Biotechnology
Animal Biotechnology
Bioinformatics
Proteomics & Genomics
Laboratory - III

FOURTH SEMESTER

IPR, Biosafety & Bioethics
Research Methodology
Environmental Biotechnology
Project

KNOW YOUR DESTINATION

A CAREER GUIDANCE & COUNSELING PROGRAM FOR LIFE SCIENCE STUDENTS

Students of Life Science (Botany / Microbiology / Biochemistry / Biotechnology / Zoology) program (UG/PG) are given free counseling on 'Know Your Destination' program. This is exclusively organized by the Department of Biotechnology on all working days for the benefit of the students who come to know about various Job opportunities, Research programs, CV preparation and other soft skills. Students may avail this opportunity by registering their names for an appointment at the numbers given below.

Dr. M.S. Mohamed Jaabir - 9786425226

Dr. S. Senthil Kumar - 9965873830

(Monday to Friday: 9.30 am to 5.30 pm)

or e-mail us to

biotechnology@nct.ac.in

DIFFERENTIATORS

M.Sc., Biotech @ National College, Trichy

M.Sc., Biotech. @ other Colleges / Universities

Hands'-on training/
workshops in Animal
Cell Culture



Hands'-on training /
workshops in Fermen-
tation Technology



PLACEMENT ORIENTED PROGRAMMES

PG Diploma in
Bioprocess Technology



Concurrent
PG Diploma in Clinical
Research &
Regulatory Affairs



TRAINING IN HIGH-END INSTRUMENTATION FACILITY AT M.Sc.. LEVEL

Scanning Electron
Microscope (SEM)



Atomic Absorption
Spectroscopy (AAS)



FT-IR & Fluorescence
Spectrophotometer



Gas Chromatography-
Mass Spectroscopy
(GC-MS)



HPLC



Bioreactors



24 / 7 Lab facility



e-library



Webinars



Industry-Institution
partnership



Mini-projects



Research Publications
at M.Sc., level



FOR COURSE DETAILS, SELECTION PROCESS & APPLICATION FORMS CONTACT:

The Principal
National College (Autonomous)
Tiruchirapalli - 620 001.

0431 - 2482995
principal@nct.ac.in
9786425226 / 9514872917

Applications may also be downloaded at www.nct.ac.in