

SELF ASSESSMENT REPORT (SAR)

For

Accreditation of

Bachelor of Technology (B. Tech) in

Chemical Engineering

By



National Board of Accreditation

NBCC Place, 4th Floor East Tower, BishamPitamah

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CHEMICAL ENGINEERING DEPARTMENT

NATIONAL INSTITUTE OF TECHNOLOGY SRINAGAR

Hazratbal, Srinagar – 190006, J&K (India)

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PART A: INSTITUTIONAL INFORMATION

- 1. Name and Address of The Institution:** National Institute of Technology Srinagar (NIT Srinagar)

| | |
|----------------------------|---------------------------------|
| Address | City: Srinagar |
| State:- Jammu & Kashmir | Pin Code:- 190006 |
| Website:- www.nitsri.ac.in | E-mail:- admin_csc@nitsri.ac.in |
| STD Code:- 0194 | Phone No:- 2422032 |
| Fax STD Code:- 0194 | Fax:- 242047 |

Table A.1

- 2. Name and Address of the Affiliating University:** None
- 3. Year of establishment of the Institution:** 1960
- 4. Type of the Institution:** Institute of National Importance
- 5. Ownership Status:** Central Government
(Provide Details: Appendix 1 of part A)

- 6. Other Academic Institutions of the Trust/Society/Company etc., If Any:** None
- 7. Details of all the programs being offered by the institution under consideration:**

| S. No. | Programme Name (Current Intake) | Name of Department | Year of Start | Intake | Increase in Intake | Year of Increase | AICTE Approval | Accreditation Status |
|--------|------------------------------------|----------------------|---------------|--------|--------------------|------------------|----------------|---|
| 1 | B.Tech, Chemical Engineering (103) | Chemical Engineering | 1963 | 27 | 50 | 2009 | Senate | Accredited by NBA F. NO NBA/ACCR/106/2002 May 19 2009 |
| 2 | M.Tech, Chemical Engineering (19) | | 2015 | 19 | | | | |
| 3 | Ph.D., Chemical Engineering | | 2008 | 05 | 11 | 2019 | | |
| 4 | B.Tech, Civil Engineering (183) | Civil Engineering | 1960 | 50 | 73 | 2009 | | Accredited by NBA F. NO NBA/ACCR/106/2002 May 19 2009 |
| 5 | M.Tech, Transportation (16) | | 2014 | 16 | | | | |
| 6 | M.Tech, | | 2004 | 25 | | | | |

| | | | | | | | |
|----|--|--|------|----|----|------|--|
| | Structure (25) | | | | | | |
| 7 | M.Tech, Geotechnical (15) | | 2014 | 15 | | | |
| 8 | M.Tech, Water resource Engineering (13) | | 1986 | 13 | | | |
| 9 | Ph.D., Civil Engineering | | 2006 | 02 | 22 | 2019 | |
| 10 | B.Tech, Computer science Engineering (84) | Computer science Enginee- ring | 2007 | 62 | | | |
| 11 | Ph.D., Computer science Engineering | | 2010 | 01 | 05 | 2019 | |
| 12 | B.Tech, Electrical Engineering (113) | Electrical Enginee- ring | 1960 | 50 | 27 | 2009 | Accredited by NBA F. NO NBA/ ACCR/106/2 002 May 19 2009 |
| 13 | M.Tech, Electrical power and energy system (26) | | 2013 | 26 | | | |
| 14 | M.Tech, Power Electronics & electrical drives (26) | | 2020 | 26 | | | |
| 15 | Ph.D., Electrical Engineering | | 2004 | 01 | 18 | 2019 | |
| 16 | B.Tech, Electronics and Communication Engineering (106) | Electron- ics and Commu- nicationEn ginee-ring | 1984 | 50 | 27 | 2009 | |
| 17 | M.Tech, Communication and information Technology (25) | | 2004 | 25 | | | Accredited by NBA F. NO NBA/ ACCR/106/2 002 May 19 2009 |
| 18 | M.Tech, Microelectronics (14) | | 2015 | 14 | | | |
| 19 | Ph.D., Electronics and Communication Engineering | | 2005 | 01 | 15 | 2019 | |
| 20 | B.Tech, | Mechani- | 1960 | 50 | 27 | 2009 | |

| | | | | | | | |
|----|---|---|------|----|----|------|--|
| | Mechanical Engineering (117) | calEngine-ering | | | | | NBA F. NO NBA/ ACCR/106/2 002 May 19 2009 |
| 21 | M.Tech, Mechanical system design (25) | | 2004 | 25 | | | |
| 22 | M.Tech, Industrial tribology and maintenance (26) | | 2013 | 26 | | | |
| 23 | Ph.D., Mechanical Engineering | | 2008 | 10 | 32 | 2019 | |
| 24 | B.Tech, Metallurgical and Materials Engineering (106) | Metallur- gical and Materials Enginee- ring | 1960 | 15 | 62 | 2009 | Accredited by NBA F. NO NBA/ ACCR/106/2 002 May 19 2009 |
| 25 | Ph.D., Metallurgical and Materials Engineering | | 2008 | 05 | 05 | 2019 | |
| 26 | B.Tech, Information Technology (87) | Informa- tion Techno- logy | 2007 | 62 | | | |
| 27 | Ph.D., Information Technology | | 2018 | 05 | 03 | 2019 | |
| 28 | M.Sc., Physics (31) | Physics | 2015 | 31 | | | |
| 29 | Ph.D., Physics | | 2004 | 02 | 11 | 2019 | |
| 30 | M.Sc., Chemistry (30) | Chemis- try | 2020 | 30 | | | |
| 31 | Ph.D., Chemistry | | 2005 | 01 | 09 | 2019 | |
| 32 | Ph.D., Humanities& Social Science | Humanit- ies& Social Science | 2004 | 02 | 03 | 2019 | |
| 33 | Ph.D., Mathematics | Mathe- matics | 2006 | 02 | 07 | 2019 | |

Table A.7

8. Programs to be considered for Accreditation vide this application

| S. No. | Program Name |
|--------|---|
| 1 | B. Tech. Chemical Engineering |
| 2 | B. Tech. Civil Engineering |
| 3 | B. Tech. Electrical Engineering |
| 4 | B. Tech. Electronics and Communication Engineering, |
| 5 | B. Tech. Mechanical Engineering |

Table A.8

9. Total number of employees:

A. Regular Employees (Faculty and Staff):

| Items | | 2020-21 | | 2019-20 | | 2018-19 | |
|---|---|---------|-----|---------|-----|---------|-----|
| | | Min | Max | Min | Max | Min | Max |
| Faculty in Engineering | M | 105 | 106 | 79 | 79 | 78 | 80 |
| | F | 17 | 17 | 16 | 16 | 16 | 16 |
| Faculty in Maths, Science & Humanities teaching in engineering Programs | M | 25 | 26 | 21 | 21 | 20 | 21 |
| | F | 7 | 7 | 6 | 6 | 6 | 6 |
| Non-teaching staff | M | 174 | 194 | 194 | 206 | 206 | 223 |
| | F | 17 | 19 | 19 | 20 | 20 | 22 |

Table A.9a

B. Contractual Staff Employees (Faculty and Staff): (Not covered in Table A.9a):

| Items | | 2020-21 | | 2019-20 | | 2018-19 | |
|---|---|---------|-----|---------|-----|---------|-----|
| | | Min | Max | Min | Min | Max | Min |
| Faculty in Engineering | M | 19 | 19 | 20 | 20 | 37 | 37 |
| | F | 24 | 24 | 21 | 21 | 26 | 26 |
| Faculty in Maths, Science & Humanities teaching in engineering Programs | M | 3 | 3 | 2 | 2 | 5 | 5 |
| | F | 5 | 5 | 5 | 5 | 3 | 3 |
| Non-teaching staff | M | 338 | 338 | 190 | 190 | 169 | 169 |
| | F | 35 | 35 | 15 | 15 | 13 | 13 |

Table A.9b

10. Total number of Engineering Students

| Item | 2020-21 | 2019-20 | 2018-19 |
|-----------------------|---------|---------|---------|
| Total no. of boys | 2707 | 2370 | 2245 |
| Total no. of girls | 578 | 436 | 386 |
| Total no. of students | 3285 | 2806 | 2631 |

Table A.10

11. Vision of the Institution:

To establish a unique identity of a pioneer technical Institute by developing a high quality technical manpower and technological resources that aim at economic and social development of the nation as a whole and the region, in particular, keeping in view the global challenges.

12. Mission of the Institution:

- M1. To create a strong and transformative technical educational environment in which fresh ideas, moral principles, research and excellence nurture with international standards.
- M2. To prepare technically educated and broadly talented engineers, future innovators and entrepreneurs, graduates with understanding of the needs and problems of the industry, the society, the state and the nation.
- M3. To inculcate the highest degree of confidence, professionalism, academic excellence and engineering ethics in budding engineers.

13. Contact Information of the Head of the Institution and NBA Coordinator, if designated:**Head of the Institution**

Name:- Dr.RakeshSehgal

Designation:- Director

Status of Appointment:- By MHRD

Contact details of Head of the Institution

STD Code:- 0194

Telephone No:- 0782677

Mobile:- 09419433770, 9418058442

E-mail:- director@nitsri.net

Fax STD Code:- 0194

Fax No:- 242047

NBA Coordinator

Name:- Dr. Aijaz Hussain Mir

Designation:- Professor

STD Code:- 0194

Telephone No:- 0782705

Mobile:- +91-7006836408

E-mail:- ahmir@nitsri.net

NBA Co-coordinator

Name:- Dr. Harveer Singh Pali


Designation:- Assistant Professor

Mobile:- +91-8076729852

E-mail:- hspali@nitsri.net

Appendix 1 of part A

केवल कुमार शर्मा, भा.प्र.से.
K. K. Sharma, I.A.S.
सचिव
Secretary



भारत सरकार
मानव संसाधन विकास मंत्रालय
उच्चतर शिक्षा विभाग
Government of India
Ministry of Human Resource Development
Department of Higher Education
D.O. No. 16-5/2017-TS.III
5th June, 2017

Dear

As you are aware, the National Institutes of Technology (NITs) are Centrally Funded Technical Institutes (CFTIs) of National Importance set up by an act of Parliament, National Institute of Technology, Science Education and Research (NITSER) Act, 2007. Therefore, NITs do not require any approval of All India Council for Technical Education (AICTE) and also National Board of Accreditation (NBA) accreditation is not mandatory for such Institutions.

2. NIT, Srinagar has informed the Ministry of HRD that students who are studying in above NIT and belong to state of Rajasthan have been denied registration for scholarship on the portal of Department of Social Justice and Empowerment, Rajasthan. It has been mentioned that Department of Social Justice and Empowerment has been insisting that NIT, Srinagar should get accreditation beyond 2016-17.

3. As mentioned above, the NIT Srinagar is an Institution of National Importance. Therefore, accreditation from NBA/NAAC/AICTE is not mandatory for it.

4. In view of the above, it is requested to kindly look into the matter and direct concerned official(s) to allow registration of students of your state for enabling them to get scholarship.

Yours sincerely,
-sd-
(K. K. Sharma)

Shri Om Prakash Meena,
Chief Secretary,
Govt. of Rajasthan,
Government Secretariat,
Jaipur – 302 005

Copy to:
✓ Prof. A. R. Dar, Director, National Institute of Technology Srinagar, Hazratbal,
Kashmir – 190006 (J&K)

cc
Hc Scholarship
13/6/17

K. K. Sharma
(K. K. Sharma)
PA

128-C, SHASTRI BHAVAN, NEW DELHI - 110 015
TEI : 23386451, 23382698, FAX : 23385807, E-mail : secy.dhe@nic.in

Figure A.1a

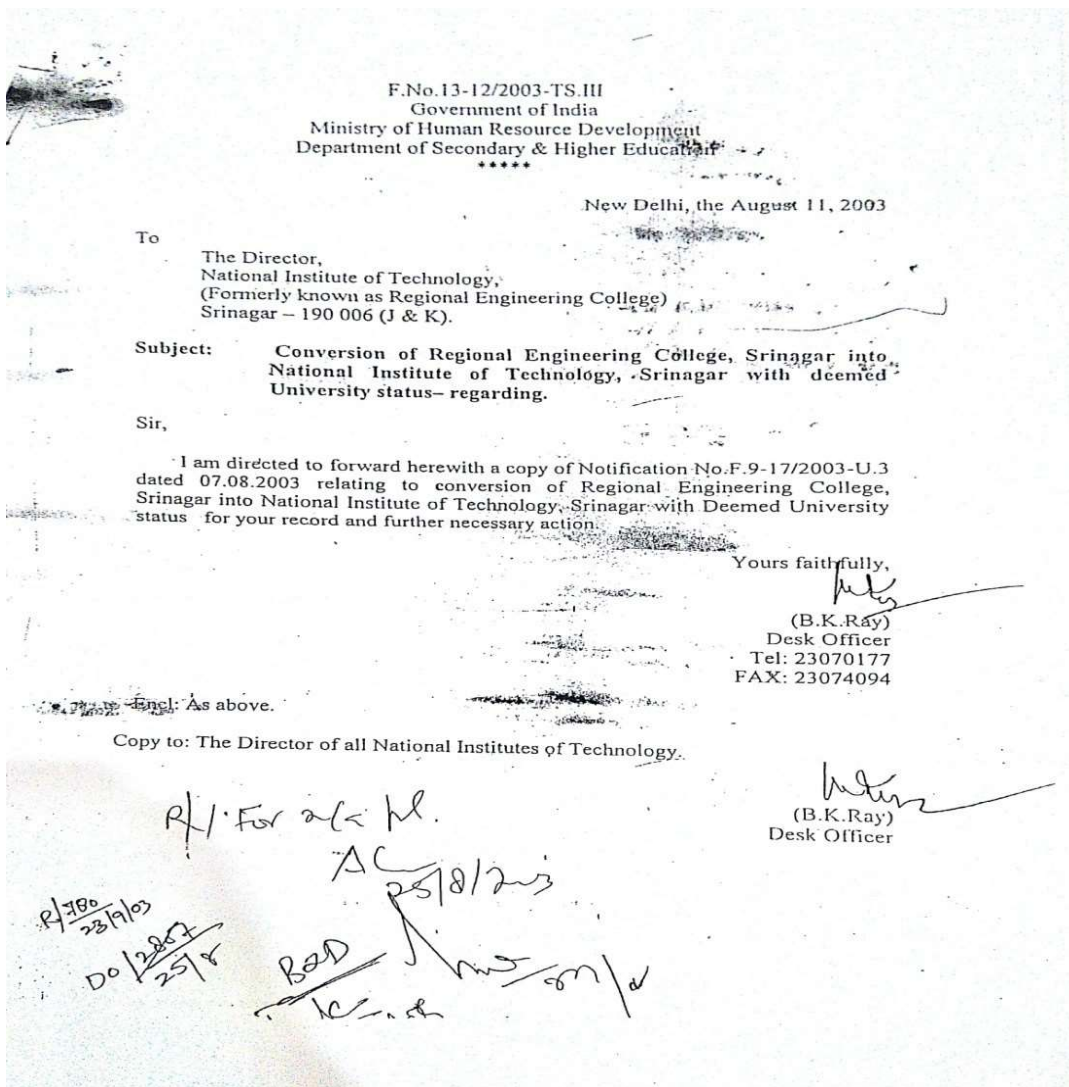


Figure A.2b

PART B: Criteria Summary

Name of the program: B.Tech in Chemical Engineering

| Criteria No. | Criteria | Marks/Weightage | |
|---------------------------------|---|-----------------|---------------|
| | | Max. | Claimed |
| Program Level Criteria | | | |
| 1 | Vision, Mission and Program Educational Objectives | 50 | 50 |
| 2 | Program Curriculum and Teaching – Learning Processes | 100 | 95 |
| 3 | Course Outcomes and Program Outcomes | 175 | 175 |
| 4 | Students' Performance | 100 | 69 |
| 5 | Faculty Information and Contributions | 200 | 146.11 |
| 6 | Facilities and Technical Support | 80 | 80 |
| 7 | Continuous Improvement | 75 | 70 |
| Institute Level Criteria | | | |
| 8 | First Year Academics | 50 | 41.58 |
| 9 | Student Support Systems | 50 | 50 |
| 10 | Governance, Institutional Support and Financial Resources | 120 | 120 |
| | Total | 1000 | 896.69 |