

# **SELF ASSESSMENT REPORT (SAR)**

**For**

**Accreditation of**

**Bachelor of Technology (B. Tech) in**

**Electrical Engineering**

**By**



## **National Board of Accreditation**

NBCC Place, 4th Floor East Tower, BishamPitamah

Marg, PragatiVihar New Delhi 110003

P: +91(11)24360620-22, 24360654

Fax: +91(11) 24360682

**ELECTRICAL ENGINEERING DEPARTMENT**

**NATIONAL INSTITUTE OF TECHNOLOGY SRINAGAR**

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

## SAR Contents

<b>Serial Code &amp; Link to the Item</b>	<b>Item</b>	<b>Page No.</b>
<b>PART A</b>	<b>Institutional Information</b>	i-viii
<b>PART B</b>	<b>Criteria Summary</b>	1
	Program Level Criteria	
<b>1</b>	Vision, Mission and Program Educational Objectives	2-13
<b>2</b>	Program Curriculum and Teaching – Learning Processes	14-60
<b>3</b>	Course Outcomes and Program Outcomes	61-100
<b>4</b>	Students’ Performance	101-107
<b>5</b>	Faculty Information and Contributions	108-124
<b>6</b>	Facilities and Technical Support	125-141
<b>7</b>	Continuous Improvement	142-152
	<b>Institute Level Criteria</b>	
<b>8</b>	First Year Academics	153-168
<b>9</b>	Student Support Systems	169-262
<b>10</b>	Governance, Institutional Support and Financial Resources	263-303
<b>PART C</b>	<b>Declaration by the Institution</b>	304

## PART A: INSTITUTIONAL INFORMATION

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

<b>Address</b>	<b>City: Srinagar</b>
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	Accredited by NBA F. NO NBA/ ACCR/106/2 002 May 19 2009
17	M.Tech, Communication and information Technology (25)		2004	25			
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	Accredited by

	Mechanical Engineering (117)	calEngine-ring					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)	Metallurgical and Materials Engineering	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)	Information Technology	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)	Chemistry	2020	30			
31	Ph.D., Chemistry		2005	01	09	2019	
32	Ph.D., Humanities& Social Science	Humanities& Social Science	2004	02	03	2019	
33	Ph.D., Mathematics	Mathematics	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

  
सत्यमेव जयते

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  
5<sup>th</sup> 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*  
*for 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

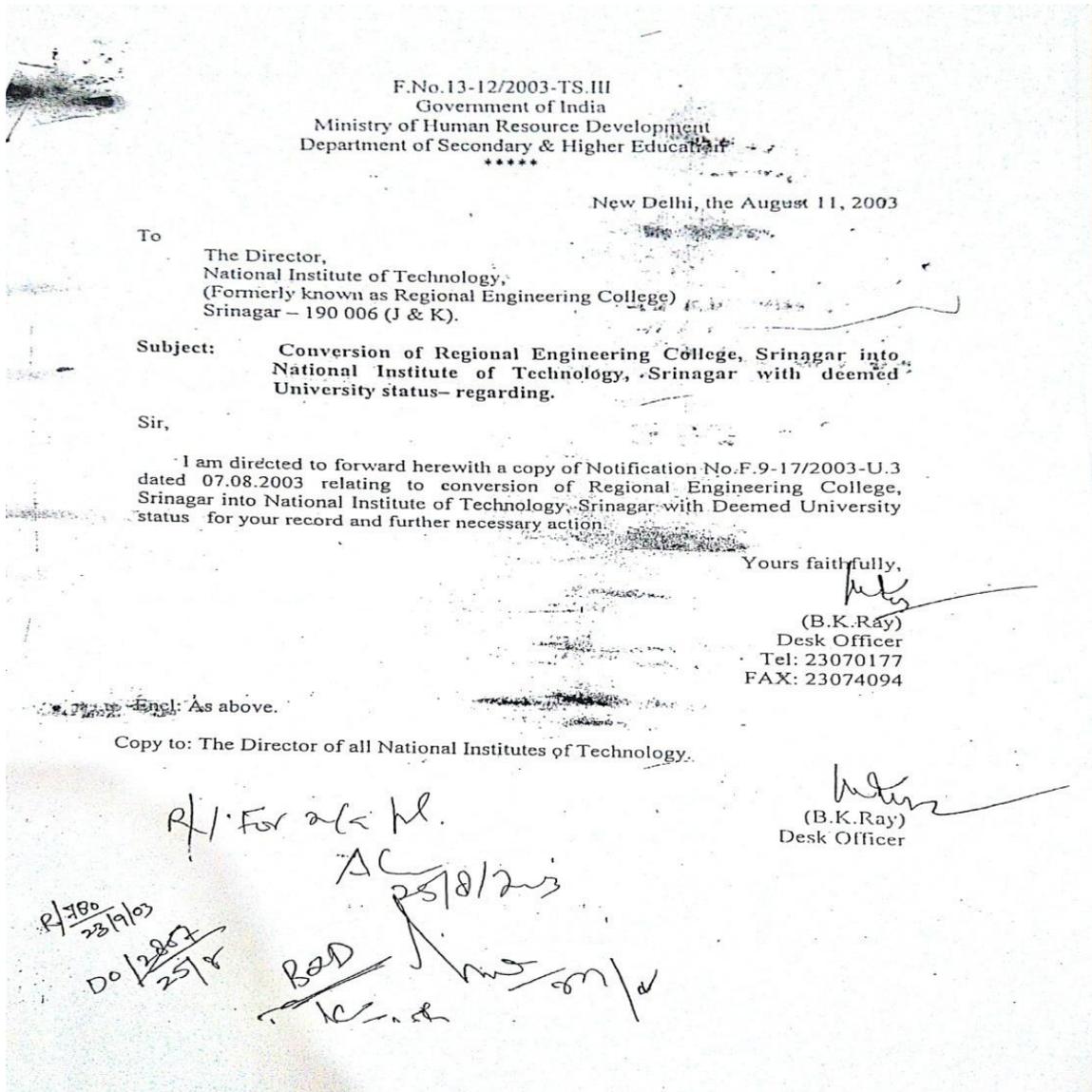


Figure A.2b

**PART B: Criteria Summary**

Name of the program: B.Tech in Electrical Engineering

Criteria No.	Criteria	Marks/Weightage	
		Max.	Claimed
<b>Program Level Criteria</b>			
1	Vision, Mission and Program Educational Objectives	50	50
2	Program Curriculum and Teaching – Learning Processes	100	100
3	Course Outcomes and Program Outcomes	175	175
4	Students' Performance	100	78.42
5	Faculty Information and Contributions	200	162.7
6	Facilities and Technical Support	80	80
7	Continuous Improvement	75	69
<b>Institute Level Criteria</b>			
8	First Year Academics	50	43.46
9	Student Support Systems	50	50
10	Governance, Institutional Support and Financial Resources	120	120
	<b>Total</b>	<b>1000</b>	<b>928.58</b>