



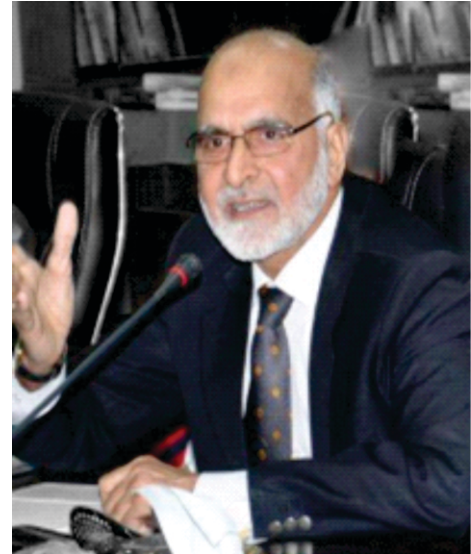
National Technology Council (NTC) Islamabad

Annual Report Fiscal Year 2016-2017



Chairperson's Message

There is a dire need to actualize the policy framework for ensuring the synergy of scientists, engineers and technologists for improvement of industrialization culture of the country. The obtaining environment is fraught with lack of mutual trust and team working. Regulatory bodies in the shape of National Technology Council (NTC) and Pakistan Engineering Council (PEC) are mandated to ensure quality of academic pursuits both in public and private sector. Mushroom growth of institutions in the two disciplines has adversely affected the quality of professionalism in the respective domain. There is lack of industrial environment space both in engineering and technological domain for hands on job internship and supervised industrial training which leads to lower level of proficiency and professional potency to confront the challenges posed by the ground realities.



Both engineers and technologists in various disciplines are competing for limited avenues available in the two categories of job opportunities resulting in drainage of potential for contribution towards national development and economy.

National Technology Council will InshaAllah make an endeavor to ensure that technology graduates and professionals are equipped with the right knowledge and skills through maintaining standards of professional ethics, ensuring national and international benchmarks are met, stimulating a culture of entrepreneurship and providing opportunities for Continuing Professional Development (CPD). To this end, Accreditation Inspection Committees (AIC)s will ensure high quality of respective technology programs being offered by the public and private institutions.

Efforts will be made to nurture an ecosystem where stakeholders' needs are met and the Council can echo an authoritative voice of technologists in Pakistan. NTC will look forward to pragmatic suggestions and intellectual pearls of wisdom from the technologists' community with profound gratitude.

Maj. Gen. (R) Akbar Saeed Awan

Statement of Compliance

In accordance with Section II – 18 of the By-laws of the National Technology Council, I submit, for information and presentation to the Controlling Authority, the Annual Report of the National Technology Council for the period 1 July 2016 to 30 June 2017.

Maj Gen (R) Akbar Saeed Awan
Chairperson NTC

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NATIONAL TECHNOLOGY COUNCIL

ANNUAL REPORT (2016-17)

1. INTRODUCTION:

NATIONAL TECHNOLOGY COUNCIL (NTC) www.ntc-hec.org.pk , is the body delegated by HEC with a mandate to carry out Accreditation in six technology disciplines of all 4 year programs leading to technology degrees over a span of 16 years of academic learning. The Accreditation is to be used to ensure that quality technology education programs are run in all the universities and their constituent colleges in the country. The technology programs and respective Higher Education Institutions meet certain defined standards comparable to international standards. The technology education curricula is aligned with guidelines of NTC, having substantial equivalence with international standards and ensures Continual Quality Improvement culture in the spirit of Outcome Based Education System in conformance with Sydney Accord. The appointment of Chairperson NTC was notified by HEC on 16th February 2016 and Secretary NTC was appointed on 7th July 2016. The Secretariat of NTC has been temporarily established in HEC's Sports Block in H-8/1 Sector of Islamabad.

2. ESTABLISHMENT OF NATIONAL TECHNOLOGY COUNCIL (NTC)

“No. 19-3 /HEC /HRM /2015 /9721 dated 7th September, 2015:- In exercise of the powers under sub-Section (e) of Section 10 of Higher Education Commission Ordinance No LIII of 2002 dated 11th September, 2002 and as approved by the Commission, in its 27th meeting held on 27th August, 2012 and 30th meeting held on 27th May, 2015 vide Item No. 6, the National Technological Council has been established in HEC with the following composition:

- i. Chairperson
- ii. Vice Chairperson
- iii. Representative of Higher Education Commission
- iv. Representative of Ministry of Science and Technology
- v. Representative of Ministry of Information Technology and Telecommunication
- vi. Representative of Ministry of Federal Education and Professional Training
- vii. Representative of Ministry of National Health Service Regulation and Coordination
- viii. Representative of Ministry of Industries and Production
- ix. Representative of Inter Provincial Coordination
- x. Representative of Ministry of National Food Security and Research
- xi. Representative of Pakistan Engineering Council
- xii. Representative of Pakistan Medical and Dental Council
- xiii. Representative of National Agriculture Education Accreditation Council
- xiv. Representative of National Computing Education Accreditation Council
- xv. Representative of National Vocational and Technical Training Commission
- xvi. Convener of Sub-Committee on All Engineering Technologies
- xvii. Convener of Sub-Committee on Life Sciences
- xviii. Convener of Sub-Committee on Allied Health Sciences
- xix. Convener of Sub-Committee on Agriculture
- xx. Convener of Sub-Committee on Physics

- xxi. Convener of Sub-Committee on Computing
 - xxii. Vice Chancellor or his / her Representative of Public / Private Sector Universities that are offering Technology Programs, one from each province including Azad Jammu & Kashmir & Gilgit Baltistan and Federal.
 - xxiii. Secretary of the Council, he/she will also be the Secretary of all sub-committees related to different disciplines
- (2) The Chairperson, Vice Chairperson and the Members shall hold office for a period of four years and shall be eligible for re-appointment for not more than one similar term. The Chairperson, Vice Chairperson and the Member may not be removed from office before the expiry of their term save on proven charges of corruption, In-efficiency, permanent disability or failure to attend three consecutive meetings without intimation in advance.

(3) The sub-committees of National Technology Council.

(3.1) Sub-Committee on All Engineering Technologies:

The Sub-Committee on All Engineering Technologies shall consist of following Members, to be appointed by the Controlling Authority in the first and subsequent instances, namely:-

- I. Convener shall be from the field of all engineering technologies;
- ii. Secretary of the Council;
- iii. Representative of Higher Education Commission;
- iv. One representative each from Provincial Technical Education & Vocational Training Authority, including AJ&K & Gilgit Baltistan;
- v. Dean / Chairperson of department of universities that are offering engineering technology programs, from each province including AJ&K, Gilgit Baltistan and Federal; and
- vi. Four Members, being technologists and having at least ten years of university level teaching and research experiences in the same domain.

(3.2) Sub-Committee on Life Sciences:

The sub-committee on Life Science shall consist of following Members, to be appointed by the Controlling Authority in the first and subsequent instances, namely:-

- I. Convener shall be from the field of technology programs related to Life Sciences;
- ii. Secretary of the Council;
- iii. Representative of Higher Education Commission;
- iv. Dean / Chairperson of department of universities that are offering that are offering Animal Production & Technology and / or Biotechnology programs, from each province including AJ&K, Gilgit Baltistan and Federal; and
- v. Four Members, being technologists and having at least ten years of university level teaching and research experiences in the same domain.

(3.3) Sub-Committee on Allied Health Sciences:

The sub-committee on Allied Health Sciences shall consist of following Members, to be appointed by the Controlling Authority in the first and subsequent instances, namely:-

- I. Convener, shall be from the field of technology programs related to Allied Health Sciences;
- ii. Secretary of the Council;
- iii. Representative of Higher Education Commission;
- iv. Dean / Chairperson of department of universities that are offering that are offering technology program related to Allied Health Sciences that are already identified in the scope, from each province including AJ&K, Gilgit Baltistan and Federal; and

- v. Four Members, being technologists and having at least ten years of university level teaching and research experiences in the same domain.

(3.4) Sub-Committee on Agriculture:

The sub-committee on Agriculture shall consist of following Members, to be appointed by the Controlling Authority in the first and subsequent instances, namely:-

- i. Convener, shall be from the field of technology programs related to Agriculture;
- ii. Secretary of the Council;
- iii. Representative of Higher Education Commission;
- iv. Dean / Chairperson of department of universities that are offering Food Science and Technology programs, from each province including AJ&K, Gilgit Baltistan and Federal; and
- v. Four Members, being technologists and having at least ten years of university level teaching and research experiences in the same domain.

(3.5) Sub-Committee on Physics:

The sub-committee on Physics shall consist of following Members, to be appointed by the Controlling Authority in the first and subsequent instances, namely:-

- i. Convener, shall be from the field of technology programs related to Physics;
- ii. Secretary of the Council;
- iii. Representative of Higher Education Commission;
- iv. Dean / Chairperson of department of universities that are offering Nano Technology programs, from each province including AJ&K, Gilgit Baltistan and Federal; and
- v. Four Members, being technologists and having at least ten years of university level teaching and research experiences in the same domain.

(3.6) Sub-Committee on Computing:

The sub-committee on Computing shall consist of following Members, to be appointed by the Controlling Authority in the first and subsequent instances, namely:-

- i. Convener, shall be from the field of technology programs related to Computing;
- ii. Secretary of the Council;
- iii. Representative of Higher Education Commission;
- iv. Dean / Chairperson of department of universities that are offering Information Technology programs, from each province including AJ&K, Gilgit Baltistan and Federal; and
- v. Four Members, being technologists and having at least ten years of university level teaching and research experiences in the same domain.

- (4) The Convener and the Members of all sub-committee shall hold office for a period of four years and shall be eligible for re-appointment for not more than one similar term. The Convener and the Members of all sub-committee may not be removed from office before the expiry of their term save on proven charges of corruption, in-efficiency, permanent disability or failure to attend three consecutive meetings without intimation in advance.

- (5) The Terms of References of NTC given in Annexure-I of the Gazette Notification are as follows:-

TERMS OF REFERENCE (TORs) OF NATIONAL TECHNOLOGY COUNCIL (NTC)

1. To organize and carry out a comprehensive program of accreditation of technology programs leading to degrees;
2. To develop accreditation polices and Processes;
3. To develop guideline and procedures for program evaluators;

4. To develop guideline and procedures for programs and institutions;
5. To develop guideline for selection of evaluators;
6. To identify and develop guidelines for ensuring “ No Conflict of Interest;”
7. To develop program evaluators' training manual self-study questionnaire;
8. To develop forms and templates;
9. To select program evaluators;
10. To train and access program evaluators;
11. The NTC shall propose policies, procedures, and criteria or may suggest changes or revisions of the same for accreditation;
12. The NTC shall administer the accreditation process based on the approved policies, procedures, and criteria;
13. The NTC shall approve the list of elevators to participate in the process of accreditation of academic programs;
14. The NTC shall constitute Accreditation Inspection Committee (AIC) for evaluation of relevant academic programs for accreditation. AIC (to be constituted from the approved list of evaluators) shall make recommendations to NTC. The final decision of the accreditation or necessary action will be made by NTC;
15. Procedures and decisions on all appeals with respect to accreditation actions shall be the responsibility of the NTC;
16. Accreditation decisions will be based exclusively on the suitable criteria, policies, and procedures and approved by NTC;
17. To publish a list of ranking of Technology Qualifications / Programs;
18. To promote intellectual development and understanding of subject areas that impact accreditation activities in the technology profession;
19. To prepare, print and publish criteria for the teaching of, and training in, technology and its applications;
20. To collect, index and publish information on any or all aspects of technology, its teaching applications, its application and uses to industry and to maintain or support any library, bureau, database or information system conducive to this end;
21. To assist academic institutions in planning their educational programs for accreditation.
22. To identify to the public, prospective students, students counselors, parents, educational institutions, professional societies, potential employers, governmental agencies, and state licensing or certification boards of specific programs that meet minimum criteria for accreditation;
23. To provide guidance for the improvement of the existing educational programs and development of future programs leading to the technology profession;
24. To simulate the improvement of technology education in Pakistan; and
25. Collect information and statistics on accreditation of higher education of technology and its respective institutions as it may deem fit and may cause it published.

3. VISION, MISSION & OBJECTIVES STATEMENTS, LOGO AND WEBSITE OF NTC :

3.1. Vision:

Transform Pakistan through technology by ensuring high quality teaching and training to develop Technologists for the benefit of society.

3.2. Mission:

To accredit higher education programs for graduate technologists, stimulate quality, innovation in teaching and training self-evaluation and accountability in higher education. Help Higher Education Institutions (HEI's) to realize their academic objectives to produce high quality

professional technologists for the benefit of society and maintain National Register of technologists.

3.3. Objectives:

Streamlining and Organizing Technology Education at National level by identifying National and Global needs and dovetailing technology professionals into public and private sector projects. Defining and applying accreditation and certification standards for improving quality in Technology Education as well as providing certified Professional Technologists at National and Global level.

3.4. LOGO OF NTC:

The NTC logo has been designed that represents its six sub-committees, and was approved by the Council :



3.5. NTC WEBSITE :

NTC website (www.ntc-hec.org.pk) has been developed. The following Information have been placed on the Website :-

- o Technology Programs Accreditation Policy and Procedures;
- o Programs in Scope;
- o Latest News and Events;
- o Frequently Asked Questions;
- o Downloads;
- o Contact Information.

4. HIGHLIGHTS AND ACHIEVEMENTS DURING 2016-17

4.1. PROGRAM ACCREDITATION POLICY AND PROCEDURES :

The Program Accreditation Policy and Procedures Manual (PAPPM) was discussed and recommended by the Council for the approval of Competent Authority, having following salient features for implementation from the Fall Semester 2017, starting in September/October 2017:-

- o Program Accreditation Policy And Procedures
- o Accreditation and Re-accreditation Guidelines
- o Zero / Prior approval assessment (to start a new program and verification) Visit
- o Zero / Prior Approval Assessment Visit Form & Report
- o Interim Visit Form & Report
- o Change of Scope Form & Report (which includes Increase in Intake, Program Objectives, Scheme of Study, Curriculum, Charter/Affiliation, Relocation of HEI or Campus etc.)
- o Confirmatory Visit Report
- o Accreditation Re-accreditation Form and Report
- o Evaluation Criteria for Technology Programs Accreditation
- o Visit Schedule itinerary of Accreditation Inspection Committee (AIC), and un-scheduled visit
- o Code of Ethics for the Program Evaluators

a. Accreditation – Qualifying Requirements:

- (1) Applicant HEI must satisfy the legal status/requirement of the relevant bodies, specifying the particular legal arrangements as a Charter / Degree Awarding Institution (DAI), Constituent or Affiliated Institution, or any other type, etc.
- (2) Technology Program course of 4 years duration shall be made up of normally 130-136 credit hours as follows:-
Core Technology Subjects ... 70% credit hours
Related Subjects ... 30% credit hours
- (3) Last two semesters 7th and 8th consists of Supervised Industrial / Field Training (minimum of 32 Credit Hrs @ 08 Hrs per day and 5 days a week i.e. 1280 contact hrs).
- (4) The supervised industrial training may be conducted on the basis of time sharing formula of 60% : 40% i.e. 60% time on hands on training and 40% time will be spent on theoretical aspects of practicals to be conducted.
- (5) Full-time Core Technology faculty, minimum of 06 (01 Professor, 01 Associate Professor, 02 Assistant Professors and 02 Lecturers) per program, and matching student-faculty ratio of 20:1 or better.
- (6) Progress / Compliance Report on the last AIC visit observations / Technology Accreditation Board (TAB) decision.
- (7) Summary of initiatives to adopt Outcome Based Education (Program Learning Objectives and Outcomes).
- (8) Duly completed and signed Self-Assessment Report (SAR) as per prescribed format in chapter 4 of the NTC's PAPPM.

(b) Accreditation – Criteria

The accreditation assessment however, involves a review of qualifying requirements and evaluation of a Technology program's conformance to the following accreditation criteria:-

- Criterion 1- Management and Organizational Structure
- Criterion 2- Program Educational Objectives (PEOs)
- Criterion 3- Program Learning Outcomes (PLOs)
- Criterion 4- Curriculum and Learning Process
- Criterion 5- Students
- Criterion 6- Faculty and Support Staff
- Criterion 7- Facilities and Infrastructure
- Criterion 8- Institutional Support and Financial Resources
- Criterion 9- Continuous Quality Improvement
- Criterion 10- Industry Linkages

(c) Accreditation Fees

Zero visit/Interim visit	}	Rs 150,000/- per visit
Change of Scope visit/ Accreditation / Re-accreditation		
Appeal against AIC decision		

(d) Admission Criteria:

NTC proposes the following minimum requirements for admission into any Technology program:

- (1) 50% marks in F.Sc. or Equivalent Qualification / ICS / DAE / B.Sc.

(Excluding sports and Hafiz-e-Quran)

(2) Qualifying the Entry Test

(3) **Induction Weightage:**

i. 70% weightage to F. Sc. or Equivalent / ICS / DAE / B.Sc.

ii. 30% to Entry Test

iii. The student should have at least 50% overall adjusted / aggregate admission marks computed from above ratios.

(e) Technology Accreditation Board (TAB):

To develop Accreditation, Registration Policies & processes, their implementation and phenomenal updating, NTC shall have a Technology Accreditation Board (TAB) comprising of eight members i. Chairperson, Secretary and six Conveners of sub-committees. The decisions shall be taken by majority votes. Each member of TAB will have one vote, while Chairperson will also have casting vote if number of votes are equal.

The Major Functions of Technology Accreditation Board are as follows:-

- (1) To formulate and implement NTC Accreditation & Registration policies and Administrative rules;
- (2) To formulate guidelines and procedures for launching of new Technology Program and subsequent Program Accreditation;
- (3) To evaluate the programs at regular intervals not exceeding four years with the third-year being the preparatory period for the next accreditation and request for accreditation / re-accreditation on prescribed forms be put up to NTC minimum 6 months before the start of the program;
- (4) To appoint Accreditation Inspection Committee (AIC) to accredit each Technology Program;
- (5) To receive and review evaluation reports by the AIC and to communicate its findings to the institutions concerned for their rejoinder, if any;
- (6) To decide on whether accreditation should be granted or not, as well as the conditions to be imposed, if there is such a need;
- (7) To respond to complaints and appeals regarding the accreditation process / decisions;
- (8) In case of dispute, an appeal against the recommendation of AIC will be submitted by the HEI within 30 days of such decision with a report to substantiate the request. The Technology Accreditation Board (TAB) will take 30 working days to arrive at final decision against the appeal along with reasons for the decision or a revisit on behest of HEI;
- (9) To publish online directory of all accredited programs (First Schedule) periodically;
- (10) To represent NTC in mutual recognition agreements on academic qualifications with other countries and international forums;
- (11) To report its work periodically to NTC's Controlling Authority;
- (12) To prepare and maintain a registry of program evaluators to carry out accreditation of HEI's Technology Programs;
- (13) To select and appoint program evaluators from the maintained registry to constitute AICs for carrying out technology programs accreditation. The number of program evaluators shall be specified by TAB as it may deemed appropriate for smooth accreditation process and to adhere with specified timeline;

- (14) To Register as “Student Technologist”, “Graduate Technologist” and “Professional Technologist” in the fields of Engineering Technologies, Life Sciences, Allied Health Sciences, Agriculture, Applied Physics and Computing Technologies;
- (15) Revision of Accreditation and Registration policies in keeping with dynamic industrial needs.

(f) Accreditation Inspection Committee (AIC)

Chairperson to approve Accreditation Inspection Committee (AIC) from Members of sub-committee approved list of “Program Evaluators”, for accreditation visitation to evaluate each respective candidate program.

4.2. STATISTICAL DATA:

- o In order to ascertain the ground realities and to take rational decisions, it is essential as a first step to collect statistical data, organize it and develop it allowing to draw logical conclusions. Hence statistical data from all the Higher Education Institutions (HEIs) on the approved list of HEC has been collected as follows :-
 - a. Number of such HEIs engaged in any type of Technology Education of 04 years Graduate Programs fulfilling the condition of 16 years of academic learning.
 - b. Number of Technology Education Program, their Titles and the disciplines being taught.
 - c. Number of student enrolled.
 - d. The expected pass-outs in 2017 (normally in June/July every year) and planned in-take for 2017-18 (normally taking place in September/October for Fall Semester).
- o The list of HEC's approved institutions, their Programs and maximum number of students permitted for those programs were obtained. The data collected from HEIs was arranged HEI-wise, then Technology / Discipline Type-wise, Province-wise and finally their bifurcation in Public Sector HEIs and Private Sector HEIs was carried out and trends concluded. The statistical data presented the following picture:-

a. POPULATION OF HEIs ENGAGED IN TECHNOLOGY PROGRAMS

Nature of Information		Public Sector HEIs	Private Sector HEIs	Total
No of HEIs engaged in Technology programs	Without HEC Approval	42	19	85
	HEC Approved	09	15	
No of ongoing Technology Programs	Without HEC NOC	140	90	282
	HEC's NOC	18	34	
Student strength in Technology Programs	Without HEC Approval	26,591	12,658	54,746
	HEC Approved	2,917	11,796	
Planned in-take by HEIs 2017-18		10,204	11,670	21,874

b. Province-Wise Student Strength

Technologies		Punjab	KPK	Sindh	Federal	Balochistan	AJK	GB	G.Total
Engineering	Public	10,074	1,157	920	484	0	194	-	12,829
	Pvt.	4,966	12,842	2,539	180	43	0	-	20,570
	Total	15,040	13,999	3,459	664	43	194	-	33,399
Life Sciences	Public	1,168	280	202	725	-	36	-	3,572
	Pvt.	1,209	583	77	0	-	0	-	1,270
	Total	2,377	863	279	725	-	36	-	4,842
Allied Health Sciences	Public	1,910	995	955	239	-	158	-	4,297
	Pvt.	105	102	57	130	-	0	-	394
	Total	2,015	1,097	1,052	369	-	158	-	4,691
Agriculture	Public	1,315	82	284	-	-	-	120	1,801
	Pvt.	35	0	0	-	-	-	0	35
	Total	1,350	82	284	-	-	-	120	1,836
Applied Physics	Public	-	50	-	189	-	-	-	239
	Pvt.	-	41	-	0	-	-	-	41
	Total	-	91	-	189	-	-	-	280
Computing	Public	3,061	459	1,447	775	100	-	328	6,770
	Pvt.	2,921	0	0	0	07	-	0	2,928
	Total	6,582	459	1,447	775	107	-	328	9,698
Total	Public	19,289	3,023	3,848	2,412	100	388	448	29,508
	Pvt.	8,637	13,568	2,673	310	50	0	0	25,238
	G.Total	27,926	16,591	6,521	2,722	150	388	448	54,746

c. Province-wise Students Planned In-take 2017-18

Technologies		Punjab	KPK	Sindh	Federal	Balochistan	AJK	GB	G.Total
Engineering	Public	3,329	340	464	149	0	98	-	4,380
	Pvt.	1,265	5,977	1,597	40	43	0	-	8,922
	Total	4,594	6,317	2,061	189	43	98	-	13,302
Life Sciences	Public	1,160	334	0	219	-	36	-	1,756
	Pvt.	824	04	80	0	-	0	-	908
	Total	1,991	338	80	219	-	36	-	2,664
Allied Health Sciences	Public	590	713	0	109	-	-	-	1,412
	Pvt.	62	180	181	56	-	-	-	479
	Total	652	893	181	165	-	-	-	1,891
Agriculture	Public	563	40	0	-	-	-	40	643
	Pvt.	118	0	96	-	-	-	0	214
	Total	681	40	96	-	-	-	40	857
Applied Physics	Public	-	50	-	104	-	-	-	154
	Pvt.	-	30	-	0	-	-	-	30
	Total	-	80	-	104	100	-	-	184
Computing	Public	849	225	306	279	0	-	100	1,859
	Pvt.	1,110	0	0	0	7	-	0	1,117
	Total	1,959	225	306	279	107	-	100	2,976
Total	Public	6,498	1,702	770	860	100	134	140	10,204
	Pvt.	3,379	6,191	1,954	96	50	0	0	11,670
	G.Total	9,877	7,893	2,724	956	150	134	140	21,874

d. Students Strength of Popular Technologies

Technologies		Punjab	KPK	Sindh	Federal	Balochistan	AJK	GB	G.Total
Civil	Public	3,801	350	200	162	-	69	0	4,533
	Pvt.	2,933	5,952	623	93	-	0	20	8,670
	Total	5,734	6,302	823	255	-	69	20	13,203
Electrical	Public	3,283	594	337	144	0	29	-	4,427
	Pvt.	1,384	2,262	635	55	14	96	-	4,406
	Total	4,660	2,856	972	199	14	125	-	8,833
IT	Public	3,250	150	1,447	189	100	-	100	5,236
	Pvt.	2,855	309	0	187	07	-	228	2,586
	Total	6,105	459	1,447	376	107	-	328	7,822
Mechanical	Public	2,299	160	214	178	-	-	-	2,851
	Pvt.	1,327	600	765	0	-	-	-	2,692
	Total	3,626	760	979	178	-	-	-	5,543

Technologies		Punjab	KPK	Sindh	Federal	Balochistan	AJK	GB	G.Total
Bio-technology	Public	1,168	701	202	725	-	36	-	2,832
	Pvt.	1,209	107	77	0	-	0	-	1,393
	Total	2,377	808	279	725	-	36	-	4,225
Food Sciences and Tech	Public	1,086	82	284	-	0	-	120	1,552
	Pvt.	35	0	0	-	20	-	0	55
	Total	1,121	82	284	-	20	-	120	1,607

e. Statistical Data Analysis

The following information accrues from the statistical data of HEIs to regulate HEIs and Technology Education Programs at bachelor level:-

- (1.) HEC permitted 24 HEIs to have 52 Technology Programs with 15,497 students, but instead 85 HEIs were found running 282 programs with 54,746 students. Thus HEC's Permission was grossly violated. The biggest violators of HEC authorized limit were UET Lahore (1,814 students against the permission of 374), Preston University Kohat (3,954 against 1,997) and Sarhad University of Science and Technology Peshawar (6,093 against 1,595), whereas Newport Institute Karachi reported only 220 students against the authorization of 3,609.
- (2.) The 24 HEIs permitted by HEC to have 14,713 students were having 23,324 students, while non-recognized HEIs were having 31,422 students. The said non-recognized HEIs, if did not fulfill the Accreditation requirements of NTC, will be a disaster for their huge number of present students and past Graduates, whose degrees will not be recognized in the country and they may not find the desired jobs.
- (3.) There seems no rationalization / check in permitting so many students. The question arises whether we can provide 8,920 jobs to those being passed out during 2017; 10,408 to those who will pass out in 2018; to 36,000 who will pass out in 2019 & 2020, while more than 21,000 graduate from 2021 onwards?
- (4.) There also seems no rationalization in selection of Technologies. Civil is the most popular Technology with 13,002 students and 5,157 likely to be inducted in 2017-18. The highest concentration of Civil Technology Student is in KPK with 6,302 students, but mere 350 planned in-take in 2017-18. Similarly 4,225 Bio-tech students with likely intake of 2,832 also look on higher side. The question in each technology is the availability of suitable jobs to match their requirements.
- (5.) As many as seven titles of programs like B-Tech , B-Tech (Honors), BSc Technology, B.Sc. Engineering Technology, BS Technology, BS Engineering Technology and BE Technology are being run. Naturally the curriculum of each will have some variations from others and so many approvals of NCRC would also be required.
- (6.) The Sarhad University of Science and Technology, Peshawar presents a classical study. They have HEC permission of 1,595 students in 10 Programs of 06 Technologies, but practically having 69 programs of 06 Technologies with 6,093 students at 13 cities in about 18 campuses (including 17 Distance Learning Centers). Interestingly they have 42 programs of B-tech (Honors) with 4,742 students and 27 Programs of B.Sc. Engineering Technology with 1,351 for the same disciplines and running two different Programs of B-tech & B.Sc. of the same discipline in the same campus looks strange.
- (7.) The Private Sector HEIs seems to be minting money by lowering criteria to as low as 40% marks in F.Sc./D.A.E as compared to 60% of Public Sector HEIs. Can a student with such a lower percentage become a good Technologist and does it not compel the HEIs to compromise their degree awarding standards to show / justify good results essential for their survival?
- (8.) The Council considered the strength issue in the meeting and was of the opinion that NTCs accreditation

in future will check the quantity and quality of students and improve the quality of Technology Graduates. The CPEC and consequently industrial boom will accommodate them without much difficulty.

Periodical Revision and Updating

Periodical revision and updating of statistical data shall be carried out on yearly basis w.e.f. 1st January, every year.

4.3. RATIONALIZATION OF SCOPE AND PROGRAM TITLES

a. STANDARDIZATION OF TITLES/NOMENCLATURES:

It was revealed in statistical data that seven titles/nomenclatures of Technology Degree Programs were in-vogue with probable variations in curriculums. It was also observed that HEIs were running two programs of same discipline with different nomenclatures even in the same premises. It was felt that it might be commercially viable and financially beneficial to the HEIs, but it seriously affects the quality of technology education and diversification of programs and subsequent degree titles raise very serious issues of degree equivalence, acceptance in the market and numerous approvals of curriculum from NCRC. It was therefore agreed by the Council to standardize the Nomenclatures of Engineering Technologies as “**B.Sc /BS. (Name of Discipline) Engineering Technology**” programs and those of other sub-committees as “**BS (Name of Discipline) Technology**” programs.

b. RATIONALIZATION OF SUB-COMMITTEE'S TITLES/NOMENCLATURES:

The Nomenclature of Sub-Committees do not contain the word “Technologies”, which was recommended to be added and the word 'All' removed from 'All Engineering' Sub-Committee as it was found to be superfluous. The new Nomenclatures would therefore be as follows:-

3.1 Engineering Technologies

3.2 Life Sciences Technologies

3.3 Allied Health Sciences Technologies

3.4 Agriculture Technologies

3.5 Applied Physics Technologies

3.6 Computing Technologies

c. SCOPE EXPANSION:

The “**Scope**” of NTC given in section II (9) of By-laws contains only 13 Programs, whereas 40 are already being taught in the country, while 25 new technology Programs are already having extensive use mainly in our strategic organizations. Hence the scope needs to be expanded as follows with standardized nomenclatures:-

1) Engineering Technologies

- i) B.Sc./BS Electrical Engineering Technology**
- ii) B.Sc./BS Mechanical Engineering Technology**
- iii) B.Sc./BS Civil Engineering Technology**
- iv) B.Sc./BS Chemical Engineering Technology**
- v) B.Sc./BS Electronics Engineering Technology**
- vi) B.Sc./BS Computer Engineering Technology**
- vii) B.Sc./BS Textile Engineering Technology**
- viii) B.Sc./BS Metallurgical Engineering Technology**
- ix) B.Sc./BS Automotive Engineering Technology**

- x) *B.Sc./BS Environmental Engineering Technology*
 - xi) *B.Sc./BS Marine Engineering Technology*
 - xii) *B.Sc./BS HVAC Engineering Technology*
 - xiii) *B.Sc./BS Architectural Engineering Technology*
 - xiv) *B.Sc./BS Mining Engineering Technology*
 - xv) *B.Sc./BS Petroleum Engineering Technology*
 - xvi) *B.Sc./BS Industrial Engineering Technology*
 - xvii) *B.Sc./BS Aviation Engineering Technology*
 - xviii) *BS Coal Engineering Technology*
 - xix) *BS Space Science Engineering Technology*
 - xx) *BS Aircraft Maintenance Engineering Technology*
 - xxi) *BS Fashion Design and Engineering Technology*
 - xxii) *B.Sc./BS Mechatronics Engineering Technology*
- 2) *Life Sciences Technologies*
- xxiii) *BS Biotechnology*
 - xxiv) *BS Agriculture Bio-tech*
 - xxv) *BS Bio-informatics*
 - xxvi) *BS Bio-chem and Bio-tech*
 - xxvii) *BS Animal Production & Technology*
- 3) *Allied Health Sciences Technologies*
- xxviii) *BS Surgical Technology*
 - xxix) *BS Dental Technology*
 - xxx) *BS Clinical Lab Technology*
 - xxxi) *BS Cardiac Perfusion/Cardiology Technology*
 - xxxii) *BS Applied Exercise /Sports Medicine Technology*
 - xxxiii) *BS Rehabilitation Medical Technology*
 - xxxiv) *BS Dialysis Technology*
 - xxxv) *BS Speech Therapy Technology*
 - xxxvi) *BS Occupational Therapy Technology*
 - xxxvii) *BS Nuclear Medicine Technology*
 - xxxviii) *BS Anesthesia Technology*
 - xxxix) *BS Respiratory Care Technology*
 - xl) *BS Medical Laboratory Technology*
 - xli) *BS Medical Technology*
 - xl ii) *BS Medical Imaging /Radiography & Imaging Technology*
 - xl iii) *BS Bio-medical Engineering Technology*
 - xl iv) *BS Emergency and Intensive Care Technology*
 - xl v) *BS Operation theater Technology*
 - xl vi) *BS Mortuary Technology*
 - xl vii) *BS Orthodontics and Prosthetics Technology*
 - xl viii) *BS Natural Health Technology*
 - xl ix) *BS Ophthalmology Technology*
 - l) *BS Radiotherapy Technology*
- 4) *Agriculture Technologies*
- li) *BS Food Science and Technology*

- l ii) BS Agricultural Technologies*
 - l iii) BS Agriculture Seed Science and Technology*
 - l iv) BS Dairy Technology*
 - l v) BS Food and Nutrition Technology*
 - l vi) BS Food and Agriculture Technology*
- 5) **Applied Physics Technologies**
- l vii) BS Nano-Technology*
 - l viii) BS Natural Mineral Resources Technology*
 - l vix) BS Materials Engineering Technology*
- 6) **Computing Technologies**
- l x) BS Information Technology*
 - l xi) BS Telecommunication Technology*
 - l xii) BS Cyber Security Technology*

Note: The above list includes the planned additional emerging technologies as well and over and above these disciplines and degree programs shall also be added to this list in due course, with formal recommendation of the NTC and approval of Controlling Authority.

d. REMOVAL OF OVERLAPPING SCOPE WITH HEC'S OTHER COUNCILS

Some Technology Programs given in Scope were found to be overlapping with National Computing Education Accreditation Council (NCEAC) and National Agriculture Education Accreditation Council (NAEAC) as follows and their resolution was agreed to be sought from HEC :-

Scope- Existing Technology Programs of NTC	Scope- Deletion in Existing Technology Programs	Revised scope Of NTC
<u>Agriculture Technologies</u> 1. BS Food Science and Technology 2. BS Agricultural Technologies 3. BS Agriculture Seed Science and Technology 4. BS Dairy Technology 5. BS Food and Nutrition 6. BS Food and Agriculture Technology	<u>Agriculture Technologies</u> ➤ BS Food Science and Technology ➤ BS Food and Nutrition Technology ➤ BS Food and Agriculture Technology	<u>Agriculture Technologies</u> 1. BS Agricultural Technologies 2. BS Agriculture Seed Science and Technology 3. BS Dairy Technology

Scope- Existing Technology Programs of NTC	Scope- Deletion in Existing Technology Programs	Revised scope Of NTC
<u>Computing Technologies</u> 1. BS Information Technology 2. BS Telecommunications Engineering Technology 3. BS Bio-informatics 4. BS Cyber Security Technology 5. BS Computer Engineering Technology 6. BS Information Engineering Technology	<u>Computing Technologies</u> ➤ BS Information Technology ➤ BS Bio-informatics	<u>Computing Technologies</u> 1. BS Telecommunications Engineering Technology 2. BS Cyber Security Technology 3. BS Computer Engineering Technology 4. BS Information Engineering Technology The above programs can be included in Sub-committee of "All Engineering Technologies" and two sub-committees of NTC could be eliminated

4.4. REGISTRATION:

The Registration of Technology students is essential to meet Sydney Accord requirements and to issue Registration Number and a certificate to this effect to recognize the qualified Technology candidates apply for jobs. The institutions like UET Lahore have also expressed their concern regarding delay in Registration permission for NTC. Hence its approval has been sought from HEC for inclusion in TORs of NTC. The registration will be open to the technology degree programs i.e. B.Sc. / B.S and B-Tech (Hons) against nominal fee in the following categories:-

- The Registration as Student Technologist @Rs 1,000/- (onetime payment), both with HEIs and NTC simultaneously at the time of their admission.
- Registration as Graduate Technologists @ Rs 2,000/- Per Annum, upon qualifying of accredited technology program and enter into National Register of Technologists (NRT).
- Registration as Professional Technologist after completion of 5 years of experience in the relevant technology discipline.

Professional Technologist (Per Annum)	...	Rs. 5,000/-
Professional Technologist (lifetime membership)	...	Rs. 12,000/-

4.5. PERMISSION TO LEVY FEES AND CHARGES:

NTC needs to be authorized to levy fees and charges as follows:-

- "NTC may levy Accreditation & Registration fees, administrative charges and collect proceeds/donations/grants as follows to meet its expenditures and other financial support from HEC, any financial assistance from International Agencies like UNESCO and USAID.
- NTC shall maintain and administer necessary separate accounts for collection of fees in respect of accreditation and registration as well as funds received from other sources like HEC and other International donor Agencies.
- NTC be empowered to make expenses from all accounts administered by it, to carry out its various functions including seminars, workshops, trainings, TA/DA, salaries and bonus to NTC employees, administrative expenses of Accreditation and Inspection Committees, transportation & miscellaneous charges. Besides, construction of NTC secretariat and its maintenance charges shall also be met from these Heads".

4.6. IMPROVEMENT IN COMPOSITION OF NATIONAL TECHNOLOGY COUNCIL:

- It was agreed that presence of five TEVTA Members in Sub-Committee of "All Engineering" was

not required as TEVTA's function was primarily training of lower technical categories and presence of one representative of National Vocational & Technical Training Commission (NVTTC) in the NTC was considered sufficient.

- b. It was agreed to recommend inclusion of the representatives of six Government Agencies / Ministries (Ministry of Defence, Ministry of Defence Production, Strategic Organizations, Defence Services, Planning Commission, and Ministry of Finance) in Council to make it more representative.

4.7. QUORUM PROBLEMS:

In order to remove impediments regarding quorum requirements for Bi-annual Meetings i.e. 75% quorum required for decision making, following suggestions were agreed by the Council to be proposed to Controlling Authority for Approval:-

- a. Council Members / representatives of the organizations having ex-officio status may not be notified by name, as normally such persons do not stay in the post for 4 years and in lieu reps deputed by Departments to attend the meeting may be accepted for quorum purposes.
- b. Nominated reps by the other Council Members due to their unavoidable commitments / inability to attend the council meeting may also be accepted for quorum purposes.

4.8. ADDITIONAL POSTS:

The Registration permission will necessitate approval of following additional posts:-

- a. Registrar (Equivalent to BPS-19)
- b. Manager IT (Equivalent to BPS-18)

5. EFFORTS TO PROMOTE NTC'S MISSION:

5.1. MEDIA CONFERENCES:

Chairperson and Secretary NTC gave interview to WTM PTV World in February 2017 for awareness and importance of Technology Education and role of Technologists in Pakistan. In the pursuance of same, the Chairperson also gave interview on Radio Pakistan in March 2017.

5.2. MEETINGS:

Meetings with following Heads of important Organizations were held for betterment of Technology Education and Technologists:-

- o Establishment Division
- o Planning Commission of Pakistan
- o Pakistan Engineering Council
- o Ministry of Science & Technology
- o DG National Health Services and Regulation
- o Atomic Energy Commission
- o NESCOM

5.3. COUNTRY-WIDE AWARENESS SEMINARS:

Country wide awareness seminars under the aegis of QAA / HEC regional offices were conducted by the Chairperson NTC to bring together top management of HEIs for the awareness of NTC's role, Outcome Based Education & Accreditation Systems, policy, processes and to focus on improvement of four years degree programs of technologies at Bachelor level. Besides, Streamlining of technology programs curriculums having substantial equivalence with international standards was emphasized to attain signatory status of Sydney Accord for mutual recognition of technologists' degree qualifications among countries that are signatory of the Sydney Accord.

Region	City / Venue	Date	No of Participants	No of HEI's
Sindh	Karachi (HEC Regional Centre)	3 rd Aug 2016	29	20
Sindh Interior	Khairpur (BBS University of Technology and Skill Development)	20 th Oct 2016	31	18
Federal Capital, AJK & GB	Islamabad (Grand Regency Hotel)	19 th Aug 2016	41	25
	Mirpur (Mirpur University of Sci & Tech MUST)	11 th Aug 2016	21	01
	National University of Sci & Tech (NUST)	09 th May 2017	09	01
	Islamic University Islamabad	31 st May 2017	05	01
KPK	Peshawar (HEC Regional Centre)	25 th Aug 2016	49	30
	University of Swat	21 st April 2017	23	01
	University of Malakand	22 nd April 2017	19	01
Punjab	Lahore (HEC Regional Centre)	1 st Sept 2016	56	34
	Lahore (University of Lahore)	6 th March 2017	08	01
	Lahore (Imperial College)	6 th March 2017	15	01
	Faisalabad (APTMA)	30 th March 2017	33	25
	Sargodha (Sargodha Medical College)	31 st March 2017	15	03
	Mianwali (Dr. A.Q. Khan Inst. of Tech.)	1 st April 2017	23	01
Southern Punjab	Multan (BZU University)	8 th Sept 2016	21	12
Balochistan	Quetta (HQ EME Centre)	29 th Sept 2016	18	12

5.4. CAPACITY BUILDING WORKSHOP' FOR TECHNOLOGY PROGRAM EVALUATORS:

A 3-days' "Capacity Building Workshop" to train Program Evaluators was held from 23rd to 25th May 2017 at Grand Regency Hotel Islamabad, which was attended by following 85 senior most academicians belonging to all the Provinces:-

Vice Chancellors	01
Deans / Chairperson / Principals	25
Professors	03
Associate professors	07
Assistant professors	35
Lecturers	14

5.5. PARTICIPATION IN IEA'S MEETING IN ALASKA:

The International Engineering Alliance (IEA) governs three International Accords i.e.

- Washington Accord (WA) for Graduate Engineers
- Sydney Accord (SA) for Graduate Engineering Technologists
- Dublin Accord (DA) for Engineering Technicians

IEA serves society by promoting global standards for Engineering and Technology programs, recognizing quality accreditation systems. The advantage that accrues in this regard is mutual acceptance of degree among signatory Countries in respect of Graduate Engineers and Graduate Technologists, for the sake of higher studies as well as employment (Global Mobility). NTC Pakistan is planning to seek provisional member status of the Sydney Accord, dealing with Technology Education at bachelor level, and may have to prefer a formal request to International Engineering Alliance (IEA).

5.6. CURRICULUM IMPROVEMENT:

Curriculum of four major academic engineering degree programs (Electronic, Electrical, Civil and

Mechanical) has been finalized by NCRC and draft uploaded for comments. This draft has now been fully modified by NTC to bring it in line with international standards / Sydney Accord and now contains the following changes :-

- (1) Three hours practical instead of two will constitute one credit hour.
- (2) Supervised and continuous Industrial / Field training of 32 weeks has been made mandatory during 7th and 8th semesters.
- (3) One week training @ 08 Hrs daily for 05 days a week will be counted as 1 credit hour and accordingly there would be 16 weeks per semester x 5 working days per week x 08 hours per day = 640 contact hour per semester or 1280 contact hours in 7th and 8th semesters.
- (4) Training log book will be maintained duly signed by the Training Supervisor at site, Training Administrator appointed by HEI and the student himself.
- (5) The industrial training assessment will be as follows:-

On the job trainer Report	20%
Training advisor report based on site visits	10%
Industrial training report	50%
Viva- voce	20%

A total of minimal 50% marks shall be considered as passing marks.

5.7. NTC MANUAL OF SERVICE AND ADMINISTRATIVE RULES

The NTC Manual of "Functional Rules and By-laws" has been prepared and will be put up for Council's approval in next Bi-annual Meeting. It contains:-

- (1) Gazette Notification of establishment of NTC
- (2) Vision, Mission, Objective Statements and Logo of NTC
- (3) Employee Service Rules
- (4) Financial and Accounting Rules
- (5) Claims, Recoveries and Contract Rules and By-laws
- (6) Procurement Rules
- (7) Losses and Their Regularization
- (8) Audit Rules
- (9) Accreditation and Registration Policies and Procedures

5.8. SERVICE STRUCTURE OF TECHNOLOGISTS:

The proposed Service Structure for Technologists has been prepared and is being processed for approval.

5.9. CHAIRMAN HEC'S LETTER FOR POSTS IDENTIFICATION & SERVICE RULES FOR TECHNOLOGISTS:

NTC's efforts to give Technologists their right share in induction and promotion succeeded and Chairman HEC wrote a letter to Establishment Division and to all Provincial Secretaries on 26th April, 2017 to identify posts of Technologists and prepare their departmental Service Rules. Consequently a meeting with NTC Management was held at Establishment Division to expedite the issue. The copy of the said letter is given in Appendix 'A'.

6. BUDGETARY RECEIPTS AND EXPENDITURES:

In the absence of Accreditation and Registration, NTC had no source of income of its own and remained 100% dependent on Grants from HEC. However proposed Registration permission and levy of Accreditation & Registration charges and charging of administrative charges will make it independent Self Accounting unit. The details of duly verified receipts and expenditures are

contained in Annual Audit Report of 2016-17 (given in Appendix "B"). However in a nutshell, the receipts and expenditures were as follows:

Receipts

Balance on 01-7-2016	Rs.1,595,512/-
Grants received during the year	<u>Rs. 5,984,500/-</u>
Total receipts	Rs. 7,580,012/-

Expenditures

Pay & Allowances	Rs. 5,393,467/-
Other Expenditures	<u>Rs. 312,860/-</u>
Total Expenditures	Rs. 5,706,327/-
Balance brought forward to 2017-18	Rs. 1,873,685/-

In addition to above the following expenditures were met by QAA Department of HEC:-

Capacity Building Workshop	Rs. 1,722,093/-
IEA's Meeting participation in Alaska	<u>Rs. 489,059/-</u>
Total	Rs. 2,211,152/-

7. ANNUAL AUDIT REPORT:

M/s Zia Masood Kiani & Co, the Chartered Accountants based in Islamabad, were engaged for annual audit of 2016-17 and their report is given in Appendix 'B'.



Appendices





HIGHER EDUCATION COMMISSION

H-9, ISLAMABAD (PAKISTAN) Website: www.hec.gov.pk

Prof. Dr. Mukhtar Ahmed
Chairman

No.15-31/A&C/2017/HEC/117
Dated Wednesday the April 26, 2017

Subject: Establishment of National Technology Council

Dear Chief Secretary,

السلام عليكم ورحمة الله وبركاته

The role of technologists is vital in delivering high standards of goods and services through application of existing technologies. With the development of a society, their function becomes even more important at operational and output level. To strengthen this applied field of knowledge, the Higher Education Commission has established National Technology Council (NTC) on September 07, 2015. The NTC objective is to streamline and organize technology education at national level by identifying national and global needs, define and apply accreditation and certification standards for improving quality in-technology education besides providing certified professional technologists at regional and global level. Even so, the Technologists are still confronted with the challenge of job opportunities and career advancement primarily due to absence of service structure for induction and promotion of the technologists (BPS-17) in the Government/semi government organizations and departments. The major impediment is confusion at the end of employer in identification and distribution of posts amongst two different but equally important streams viz. Engineers and the Technologists.

02. Aforementioned in view it is important to map the posts available for Technologists vis-à-vis Engineers in Public Sector Organizations and delineate a service structure based on recognition of qualifications of Technologists. Accordingly, I seek your kind and considered support in undertaking process of mapping all posts for Technologists in Public Sector and reviewing service structure therefor for remodelling it at par with equivalent professions. The task may kindly be prioritized and undertaken with timelines to serve the cause of a vast majority of Technologist graduating from recognized institutions.

03. Looking forward to working together for the development of Pakistan.

(Prof. Dr. Mukhtar Ahmed)

The Chief Secretary

Sindh, Khyber Pakhtunkhwa, Balochistan, Punjab, Gilgit Baltistan and AJ&K

c.c.to:

- i. Secretary, Establishment Division, Government of Pakistan, Islamabad
- ii. Secretary, Federal Education and Professional Training, Islamabad
- iii. Secretary Higher Education Department, All Provinces and Regions
- iv. Chairman, National Technology Council, Islamabad
- v. The Director General, Quality Assurance Agency (QAA), HEC

E-mail: chairman@hec.gov.pk Ph: +9251- 90400100, Fax: 90400104

D.No. 86
27/4/17

NATIONAL TECHNOLOGY COUNCIL

AUDIT FOR THE YEAR ENDED

JUNE 30, 2017



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F-11 Markaz, Islamabad-Pakistan
Tel: +92-51-2111906-7
Fax: +92-51-2700908
Email: info@thezmk.com
www.thezmk.com

AUDITOR'S REPORT

We have audited the accompanying statement of cash receipts and expenditure of National Technology Council for the year ended June 30, 2017 and a summary of significant accounting policies and other explanatory information (here-in-after referred to as the 'financial statement').

Basis of Preparation

The financial statement has been prepared by the management in accordance with the cash receipts and expenditure basis of accounting as described in note 3 thereto.

Management' Responsibility for the Financial Statements

The Management is responsible for the preparation and fair presentation of this financial statement in accordance with the cash receipts and expenditure basis of accounting described in note 3, and for such internal control as the Management determines is necessary to enable the preparation of the financial statement that is free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express an opinion on the financial statement based on our audit. We conducted our audit in accordance with the approved auditing standards as applicable in Pakistan. Those standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statement is free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statement. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statement, whether due to fraud or error, in making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statement in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of accounting estimates, if any, made by the Management, as well as evaluating the overall presentation of the financial statement.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, the financial statement presents fairly, in all material respects, the statement of cash receipts and expenditure of National Technology Council for the year ended June 30, 2017 in accordance with the cash receipts and expenditure basis of accounting as described in note 3.

ISLAMABAD

Dated: August 02, 2017

Ziamasoodkiani & Co.

ZIA MASOOD KIANI & CO.
(Chartered Accountants)

Engagement Partner
Zia Ullah- FCA



Targeting Success : audit and advisory | company secretarial | corporate finance | financial planning | forensic | outsourcing | payroll | taxation

NATIONAL TECHNOLOGY COUNCIL
RECEIPTS AND EXPENDITURE STATEMENT
FOR THE YEAR ENDED JUNE 30, 2017

	Note	2017 (Rupees)
Receipts	5	5,984,500
Expenditure		
Establishment costs		5,393,467
Printing and stationery		39,008
Repair & maintenance		1,900
TA/DA		121,785
Meeting and seminars		82,946
Bank charges		1,639
Miscellaneous expenses	6	29,680
Communication expenses		32,352
Furniture and fixtures		3,550
		5,706,327
Excess of Receipts over Expenditure		278,173

The annexed notes from 1 to 10 form an integral part of these financial statements.



 SECRETARY



 ACCOUNTS OFFICER

NATIONAL TECHNOLOGY COUNCIL
NOTES TO THE RECEIPTS AND EXPENDITURE STATEMENT
FOR THE YEAR ENDED JUNE 30, 2017

Note 1

Council and its Operations

National Technology Council (hereby referred to as 'Council') was established by Higher Education Commission (HEC) via notification No.19-3 /HEC/HRM/2015/9721 dated 7th September 2015, published in the Gazette of Pakistan on October 2, 2015. The objective of Council is to accredit Higher Education Institutions Programs for graduate technologists by stimulating quality, innovation in teaching and training, self-evaluation & accountability and helping Higher Education Institutions (HEI's) to realize their academic objectives to produce high quality professional technologists for the benefit of society.

Note 2

Statement of Compliance

The Receipts and Expenditures Account has been prepared in accordance with the basis of accounting as described in Note 3.

Note 3

Basis Of Preparation

The Receipts and Expenditure Account has been prepared under the cash basis. In cash basis of accounting revenue is recognized when received rather than when earned and expenses are recognised when payments are made rather than when incurred.

Note 4

SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Significant accounting policies applied in the preparation of these financial statements are setout below. These policies have been consistently applied to all the years presented.

4.1 Income Recognition

Income/Receipts are recognized when cash and cash equivalent is received.

4.2 Functional and presentation currency

The Receipts and expenditure statement is presented in Pakistani Rupees, which is the Council' functional and presentation currency.

4.3 Cash and cash equivalents

Cash and cash equivalents comprises of cash in hand and cash at bank.



NATIONAL TECHNOLOGY COUNCIL
Notes to the Financial Statements

Page 3 of 4

Note 5
Receipts

	2017
	Rupees
Annual grant from Higher Education Commission	<u>5,984,500</u>

Note 6
Miscellaneous Expenses

	2017
	Rupees
Entertainment expenses	13,300
Water consumption expenses	16,380
	<u>29,680</u>

Note 7
Variance Analysis

	Budgeted	Actual	Variance	
	Rupees	Rupees	Rupees	Percentage
Establishment costs	6,000,000	5,393,467	606,533	10%
Printing and stationery	500,000	39,008	460,992	92%
Repair & maintenance	1,000,000	1,900	998,100	100%
Publicity and advertisement	700,000	-	700,000	100%
TA/DA	3,000,000	121,785	2,878,215	96%
Training & orientation	1,500,000	-	1,500,000	100%
Publication & Printing	500,000	-	500,000	100%
Meetings / seminars	1,000,000	82,946	917,054	92%
Audit expenses	150,000	-	150,000	100%
Legal & professional	500,000	-	500,000	100%
Bank charges	100,000	1,639	98,361	98%
Membership fees	500,000	-	500,000	100%
Vehicle running & maintenance expenses	700,000	-	700,000	100%
Miscellaneous expenses	2,500,000	29,680	2,470,320	99%
Communication expenses	600,000	32,352	567,648	95%
Computer and office equipment	2,000,000	-	2,000,000	100%
Furniture and fixtures	600,000	3,550	596,450	99%
Vehicle	1,000,000	-	1,000,000	100%
	<u>22,850,000</u>	<u>5,706,327</u>	<u>17,143,673</u>	

Note 8
General Fund

	2017
	Rupees
Balance at the beginning of the year	1,595,512
Surplus/(Deficit) for the year	278,173
Balance at the year end	<u>1,873,685</u>

General Fund is being represented by Cash and Cash equivalents at the year end June 30, 2017

NATIONAL TECHNOLOGY COUNCIL
Notes to the Financial Statements

Page 4 of 4

Note 9

Cash and cash equivalents

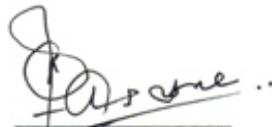
	Note	2017
Cash in hand		<u>6,920</u>
Cash at bank		
- Balance as per current a/c (PKR)		1,930,059
Less: Unpresented cheques		<u>(63,294)</u>
		<u>1,866,765</u>
Total Cash and cash equivalents		<u><u>1,873,685</u></u>

Note 10

General

10.1 Figures in these financial statements have been rounded off to the nearest rupee.

10.2 These financial statements were authorized for issue by the Council on _____.



SECRETARY



ACCOUNTS OFFICER



PICTURE GALLERY





Seminar at HEC Regional Office Karachi



Seminar at Regency Hotel Islamabad



Seminar at HEC Regional Office Lahore



Seminar at Peshawar



Seminar at BZU Multan



Seminar at Quetta



Seminar at Sukkur



BBS University of Tech and Skill Dev Sindh



APTMA Faisalabad





Seminar at Mianwali

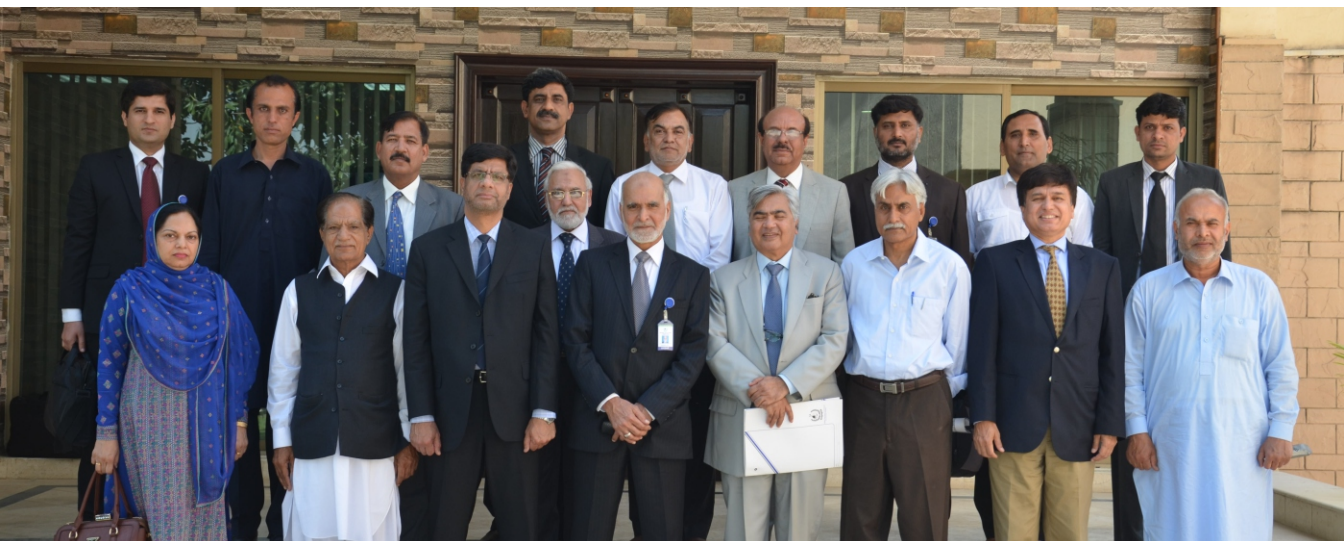


Seminar at Malakand



Seminar at NUST





2nd Bi-Annual Meeting and Remeeting of National Technology Council








NATIONAL TECHNOLOGY COUNCIL (NTC)

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