AGENDA

49th Academic Council Meeting
(27th June, 2016)
Venue : IKGPTU Mohali Campus

"propelling Punjab to a Prosperous Knowledge Society"

I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY
JALANDHAR-KAPURTHALA HIGHWAY

AGENDA POINTS FOR 49th MEETING OF ACADEMIC COUNCIL SCHEDULED TO BE HELD ON 27th JUNE, 2016 AT 12:00 NOON AT IKG-PTU MOHALI CAMPUS

A. STATUTORY AGENDA

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49.02	Action Taken Report (ATR) of the 48th Academic Council meeting held on 7th April, 2016.	1	II	8

B. INFORMATION AGENDA

49.03	Decision of the BOG on 47th Academic council meeting.	1		

C. AGENDA FOR DISCUSSION & RECOMMENDATIONS

49.04	Review of Online Admissions for session 2016-17	1	III	9
49.05	Progress of Choice Based Credit System	2	IV	10-12
49.06	Draft Policy on Placement	2	V	13-14
49.07	Draft Policy on Industrial Training	2	VI	15-18
49.08	Draft Policy on Entrepreneurship	2	VII	19-20
49.09	Draft Policy to Introduce Skill oriented courses in various disciplines	3	VIII	21-28

D. ANY OTHER AGENDA

49.10	Any other item with the permission of the Chair.	3		

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AGENDA FOR 49th MEETING OF ACADEMIC COUNCIL SCHEDULED TO BE HELD ON 27th JUNE 2016 AT 12.00 NOON AT IKG-PTU MOHALI CAMPUS

A. STATUTORY AGENDA

49.01 To confirm the minutes of 48th Academic Council meeting held on 27th April, 2016.

Minutes of 48th Academic Council meeting held on 27th April, 2016 were circulated to all members and are enclosed at **Annexure – I**. No comments were received.

The item is placed before the Academic Council for its confirmation.

49.02 Action Taken Report (ATR) of the 48th Academic Council Meeting.

The action taken report on the 48th meeting of the Academic council is enclosed as **Annexure – II**.

The item is placed before the Academic Council for information and deliberations.

B. INFORMATION AGENDA

49.03 Decision of the BOG on 47th Academic council meeting.

The BOG has not approved the agenda item No. 47.10 to start new courses and the agenda item no. 47.12 regarding eligibility change to some of the courses. Both the items have been referred back to BOS for review and shall be placed in the next meeting.

C. AGENDA FOR DISCUSSION & REVIEW

49.04 Review of Online Admissions procedure for session 2016-17

Government of Punjab has appointed IKGPTU as authority competent to conduct the online centralized counseling for admission to various degree level Engineering and Architecture courses being run in the institutions affiliated to IKGPTU, MRSSTU & PAU on the basis of JEE (Main) and NATA respectively for the Academic Session 2016-17.

In view of the recent notification by the Punjab Government that the post metric scholarship is applicable only to the students admitted through centralized admission procedure.Council has also approved the centralized admission procedure for Non-AICTE (UGC) courses being run in the affiliated colleges of IKG PTU and the same was circulated to all colleges.

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For AICTE Centralized online counseling is to be conducted for which the schedule has been prepared which is placed at **Annexure – III.**

The counseling for B. Arch and B. Pharmacy courses has already been started as per the above schedule.

The item is placed before the council for consideration and approval.

49.05 Progress of Choice Based Credit System

IKG PTU has implemented credit based evaluation system in its campuses, constituent colleges as well as all the affiliated colleges from the year 2015-16. The result of 1st semester is declared successfully following absolute grading system for affiliated colleges and relative grading system for campuses, constituent colleges and autonomous colleges.

Now as per the UGC directive the university is in process of revising teaching schemes and syllabuses to implement the Choice Based Credit System (CBCS), which will be implemented from the year 2017-18.

As desired by the council in the previous meeting, the detailed report regarding action plan for choice based credit system is placed as **Annexure-IV.**

The item is placed before the council for information and review.

49.06 Draft Policy on Placement

A policy is proposed for the Placements and related activities to bring a better coherence among the colleges and the University. This policy is brought up to quantify the placements qualitatively and an effort to address the challenges faced at the college level and at the university level regarding the employability of the students of Punjab. This policy is uniformly applicable to all the colleges include Affiliated Colleges, Autonomous Colleges, Constituent Colleges and University Campus. Policy on placement is placed at **Annexure – V.**

The item is placed before the council for information and review.

49.07 Draft Policy on Industrial Training

A policy is proposed for the Industrial Training and other trainings which are the part of the curriculum. This policy is brought up to enhance the practical enrichment among the students. This policy is uniformly applicable to all the colleges associated with IKGPTU Policy on Training is placed at **Annexure – VI.**

The item is placed before the council for information and review.

49.08 Draft Policy on Entrepreneurship

IK Gujral Punjab Technical University has made extensive efforts in building an entrepreneurial culture at its affiliated colleges during the last 4 years. To further enhance entrepreneurship, First Draft of Entrepreneurship Development Policy 2016-17 (As per **Annexure – VII)** to be followed by the colleges was prepared to encourage students and faculty members for entrepreneurship.

The item is placed before the council for information and review.

49.09 Draft Policy to Introduce Skill oriented courses in various disciplines

The members were informed in the previous meeting that the University is planning to introduce skill based courses towards enhancing the employability of the student and aligning the syllabus with the needs of the industry and employers.

The detailed drafted policy is placed at **Annexure – VIII** for information and review.

49.10 Any other item with the permission of the Chair.

MINUTES OF 48th MEETING OF ACADEMIC COUNCIL HELD ON 27th APRIL 2016 AT 2.30 pm AT IKG-PTU MOHALI CAMPUS

A. STATUTORY AGENDA

48.01 To confirm the minutes of 47th Academic Council meeting held on 5th February, 2016.

The council confirmed the minutes of 47th Academic Council meeting held on 5th February, 2016.

48.02 Action Taken Report (ATR) of the 47th Academic Council Meeting.

The Council noted the action taken report on the 47th meeting of the Academic council. During deliberation members suggested that IKGPTU will proceed for the combined subscription rates of e-journals so that the same will be made available to the institutions at economic rates.

The mechanism for the payment of e-journal will also be explored.

48.03 Award of Ph.D.

The council has recommended the following candidates for award of Ph.D. degree to BOG:

Sr. No	Registration No.	Date of Viva-voce	Name	F Name	Branch	Title of Thesis
1.	18.01.09	29.12.15	Priyanka Chugh	Mohinder Chugh	Geology	Physico chemical study and indexing of pollution in drinking water from hand pumps of pathankot and hoshiarpur distt
2.	07.30.09	25.01.16	Balwinder Singh	Harchand Singh Brar	Mathematics	Study of generalized mds and reed-muller codes with applications
3.	11.98.09	01.02.16	Parul Chaudhary	Mohan Lal	Management	Capital structure analysis of selected companies in food processing industry
4.	1012002	15.02.16	Nirmal Singh	Gurbax Singh	Chemistry	Synthesis, characterization and use of carbohydrate derived surfactants as micellisation and reverse micellisation probes
5.	02.48.09	19.02.16	Parveen Singla	Dharmpal Singla	Electronics & Communication Engineering	Performance investigations on wcdma networks

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6.	11.105.09	27.02.16	Geet	Y.P. Mehra	Management	Management of occupational stress: a study of technical education institutions in punjab
7.	1109028	29.02.16	Sonia Bansal	B.N. Bansal	Management	A study on cross selling strategies of commercial banks in india
8.	14.41.09	11.03.16	Narinder Singh Rana	I.S. Rana	Computer Science and Engineering	Spectra of spiffy cyber world and sustainability analysis of its security issues & challenges in global scenario
9.	1109079	18.03.16	Babita Singla	Pawan Kumar Singla	Management	A study of problems and prospects of organized fmcg retailing in punjab state
10.	05.33.07	29.03.16	Tarsem Chand	Jaimal Ram	Mechanical Engineering	Study and Investigation of Surface Inteegrity in Electrical Discharge Machining (EDM) Process for Tungsten Carbide and Die Steel
11.	17.02.08	09.04.16	Bhoomi Gupta	M.L. Mahajan	Computer Science and Engineering	Disaster risk management through information and communication technology (ict)
12.	17.03.08	09.04.16	Sachin Gupta	S.C. Gupta	Computer Science and Engineering	Security and qos in wireless sensor networks

Council desired that the faculty in which Ph.D Degree is to be awarded should also be mentioned against each candidate.

B. INFORMATION AGENDA

48.04 Academic audit of engineering colleges.

While the members welcomed the efforts of the university in improving the standards of technical education in the state and pledged their support, the members expressed reservation about the entire exercise of academic audit.

While discussing the academic audit, the members sought the basis of the weightages given to various parameters and whether the same were in accordance with the accepted national standards such as NAC/NBA/NIRF etc. and whether any feedback was taken while finalizing the framework for audit as it impacts the institutions. Whether the entire scheme of academic audit along with its key objectives, detailed modalities, validity period of the audit, and publication of the academic audit rankings was ever

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notified by the University to the stakeholders. The members also pointed out certain discrepancies in the marks and ranks awarded.

In addition, it was also pointed out that the institutions submit detailed information on each of these parameters and additional parameters annually while seeking continuation of affiliations. This information is latest and backed by affidavit of the institute. It may also be kept in mind that half the districts have now been transferred to the other University.

It was decided to look into these aspects and details will be presented in the next meeting. The members were also requested to give their suggestions in writing to the University.

C. AGENDA FOR DISCUSSION & RECOMMENDATIONS

48.05 Online Admissions procedure for session 2016-17

Dean Academic informed that Government of Punjab has appointed IKGPTU as authority competent to conduct the online centralized counseling for admission to various degree level Engineering and Architecture courses being run in the institutions affiliated to IKGPTU, MRSSTU & PAU on the basis of JEE (Main) and NATA respectively for the Academic Session 2016-17.
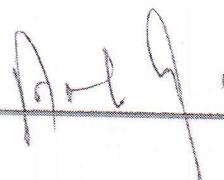
It was also informed in view of the recent notification by the Punjab Government that the post Matric scholarship is applicable only to the students admitted through centralized admission procedure.

The central admission procedure as proposed was deliberated by Academic council members and the updated Central Admission Procedure for session 2016-17 (as per **Annexure - I**) was approved by the Council.

48.06 Choice Based Credit System

The University shared further steps required for the implementation of Choice Based Credit System in line with the UGC directive. It was informed that the syllabus needs to be revised for the implementation of choice based credit system and a meeting of all the BOS is being organized separately. All the members were requested to extend their cooperation in successfully implementing the Choice Based Credit System.

While reviewing the implementation of grading system, it was unanimously decided that only absolute grading was possible in case of affiliated colleges as the marks awarded in the external examination cannot be converted into relative grading and a hybrid system of part relative and part absolute will not be in accordance with UGC guidelines and none of affiliating universities have adopted a hybrid system. Relative grading will

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however be implemented in the constituent/main campus/autonomous institutions, which have academic autonomy.

It is also decided that multiplying factor of 9.5 will be used instead of 10 for converting CGPA into percentage.

The University will follow the Grading System and nomenclature of Grades in accordance with the UGC guidelines.

A detailed presentation on action plan and timelines for choice based credit system will be made in the next meeting.
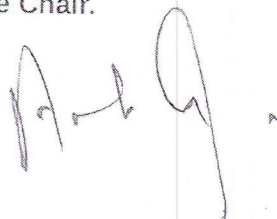
48.07 Skill based Education

The members were informed that the University is planning to introduce skill based courses towards enhancing the employability of the students and aligning our syllabus with the needs of the Industry and Employers.

The detailed presentation regarding same will be shared in the next academic council meeting.

48.08 To establish National Career Service Centre

The members were informed that the University is going to renew its focus on enhancing the employability of its students to ensure their placement as well as promoting entrepreneurship. Due to paucity of time, detailed discussion on industrial training, placement and entrepreneurship could not be held. All the members were asked to give their suggestions to the University and the same would be discussed in the next meeting.

48.09 Any other item with the permission of the Chair.

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ACTION TAKEN REPORT
ON
48th MEETING OF ACADEMIC COUNCIL HELD ON 27th APRIL, 2016
AT 02:30 PM AT IKG-PTU MOHALI CAMPUS

A. STATUTORY AGENDA

Item No.	Agenda Item	Action taken report
48.01	To confirm the minutes of 47th Academic Council meeting held on 5th February, 2016.	The Board did not approve the agenda item No. 47.10, The agenda item no. 47.12 was referred back for review.
48.02	Action Taken Report (ATR) of the 47th Academic Council meeting held on 5th February, 2016.	No action required
48.03	Award of Ph.D.	Approved

B. INFORMATION AGENDA

48.04	Academic audit of engineering colleges	Under progress

C. AGENDA FOR DISCUSSION & RECOMMENDATIONS

48.05	Online Admissions for session 2016-17	Implemented. A review item is being placed as agenda item No. 49.04
48.06	Choice Based Credit System	Item is being placed as agenda item No. 49.05
48.07	Skill based Education	Item is being placed as agenda item No. 49.09
48.08	To establish National Career Service Centre	Item regarding industrial training, placement and entrepreneurship is being placed as agenda item No. 49.06, 49.07 & 49.08

D. ANY OTHER AGENDA

48.09	Any other item with the permission of the Chair.	

IKGPTU WEB COUNSELLING SCHEDULE FOR ACADEMIC SESSION 2016-17

1st Round

Activity	B.Tech. 1st Year (Alongwith Fee Waiver)		1st Year of B.Pharmacy (Alongwith Fee Waiver) & B.Arch.		M.Tech (FT/PT) & M.Pharmacy (FT)		MBA & MCA 1st Year		Lateral Entry to B.Tech., B.Pharm. & MCA	
	Start Date	End Date/Actual	Start Date	End Date/Actual	Start Date	End Date/Actual	Start Date	End Date/Actual	Start Date	End Date/Actual
Fee Deposition	05-05-2016	02-07-2016	05-05-2016	15-06-2016	05-05-2016	26-06-2016	05-05-2016	26-06-2016	05-05-2016	28-06-2016
Registration	04-07-2016 11:00 am (Monday)	07-07-2016 11:59 pm (Thursday)	17-06-2016 (Friday)	21-06-2016 11:59 pm (Tuesday)	28-06-2016 11:00 am (Tuesday)	01-07-2016 11:59 pm (Friday)	28-06-2016 11:00 am (Tuesday)	01-07-2016 11:59 pm (Friday)	30-06-2016 11:00 am	03-07-2016 11:59 pm (Sunday)
Rank Preparation & Updation	Choice filling will start simultaneously		22-06-2016 (Wednesday)		02-07-2016 (Saturday)		02-07-2016 (Saturday)		04-07-2016 (Monday)	
Choice Filling			22-06-2016 (Wednesday)	25-06-2016 11:59 pm (Saturday)	02-07-2016 (Saturday)	05-07-2016 11:59 pm (Tuesday)	02-07-2016 (Saturday)	05-07-2016 11:59 pm (Tuesday)	04-07-2016 (Monday)	07-07-2016 11:59 pm (Thursday)
1st Round Result	08-07-2016 03:00 pm (Friday)		27-06-2016 09:00 am (Monday)		07-07-2016 09:00 am (Thursday)		07-07-2016 09:00 am (Thursday)		09-07-2016 09:00 am (Saturday)	
Reporting in Allotted Institution	09-07-2016 (Saturday)	12-07-2016 08:00 pm (Tuesday)	27-06-2016 (Monday)	30-06-2016 08:00 pm (Thursday)	07-07-2016 (Tuesday)	09-07-2016 08:00 pm (Saturday)	07-07-2016 (Tuesday)	09-07-2016 08:00 pm (Saturday)	09-07-2016 (Saturday)	12-07-2016 08:00 pm (Tuesday)

2nd Round

Activity	B.Tech. 1st Year (Alongwith Fee Waiver)		1st Year of B.Pharmacy (Alongwith Fee Waiver) & B.Arch.		M.Tech (FT/PT) & M.Pharmacy (FT)		MBA & MCA 1st Year		Lateral Entry to B.Tech., B.Pharm. & MCA	
	Start Date	End Date/Actual	Start Date	End Date/Actual	Start Date	End Date/Actual	Start Date	End Date/Actual	Start Date	End Date/Actual
Fee Deposition	07-07-2016	11-07-2016	21-06-2016	29-06-2016	01-07-2016	08-07-2016	01-07-2016	08-07-2016	03-07-2016	11-07-2016
Registration	13-07-2016 11:00 am (Wednesday)	17-07-2016 11:59 pm (Sunday)	01-07-2016 (Friday)	03-07-2016 11:59 pm (Sunday)	10-07-2016 (Sunday)	13-07-2016 11:59 pm (Wednesday)	10-07-2016 (Sunday)	13-07-2016 11:59 pm (Wednesday)	13-07-2016 11:00 am (Wednesday)	16-07-2016 11:59 pm (Saturday)
Rank Preparation & Updation	Choice filling will start simultaneously		04-07-2016 (Monday)		14-07-2016 (Thursday)		14-07-2016 (Thursday)		17-07-2016 (Sunday)	
Choice Filling			04-07-2016 (Monday)	06-07-2016 11:59 pm (Wednesday)	14-07-2016 (Thursday)	16-07-2016 11:59 pm (Saturday)	14-07-2016 (Thursday)	16-07-2016 11:59 pm (Saturday)	17-07-2016 (Sunday)	20-07-2016 11:59 pm (Wednesday)
2nd Round Result	19-07-2016 09:00 am (Tuesday)		08-07-2016 09:00 am (Friday)		18-07-2016 09:00 am (Monday)		18-07-2016 09:00 am (Monday)		22-07-2016 09:00 am (Friday)	
Reporting in Allotted Institution	19-07-2016 (Tuesday)	22-07-2016 08:00 pm (Friday)	08-07-2016 (Friday)	10-07-2016 08:00 pm (Sunday)	18-07-2016 (Monday)	21-07-2016 08:00 pm (Thursday)	18-07-2016 (Monday)	21-07-2016 08:00 pm (Thursday)	23-07-2016 (Saturday)	27-07-2016 08:00 pm (Wednesday)

Note : In the 1st Round of counselling 100% seats are reserved for Punjab Residents (85% Quota) under B.Pharmacy [Lateral Entry Course)

Draft of

CHOICE BASED CREDIT SYSTEM (CBCS)

DEPARTMENT OF ACADEMICS
I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY
JALANDHAR

INTRODUCTION

I. K. Gujral Punjab Technical University (IKGPTU) (Formly known as Punjab Technical University), Jalandhar was established in the Year 1997 under the Punjab Technical University Act, 1996 (Punjab Act No. 1 of 1997) to enhance technical education and development thereof in the State of Punjab and for matters connected therewith. The University is aware of the urgent need to move towards Choice-Based Credit System (CBCS) and Grading system as per guide lines of UGC. The university has already implemented Credit Based System from the Academic session- 2015-16. The University is committed to implement CBCS in future.

APPLICABILITY OF CHOICE BASED CREDIT SYSTEM

The Choice Based Credit System (CBCS) shall apply to all Under Graduate/Post Graduate Courses of IKGPTU's Campuses, Autonomous Institutions and affiliated Colleges/Institutions. Under CBCS the requirement for awarding a degree is prescribed in terms of number of credits and students are given choices from the pool of elective courses.

COURSE STRUCTURE/ PATTERN UNDER CBCS

Degree programs will consist of three major components i.e., Core Courses, Elective Courses and Inter Disciplinary Elective Courses.

Core courses: These are offered by the parent department and are totally related to the major/discipline program. The core courses also include subjects related to Basic Sciences/Basic Engineering and Humanities.

The subject to promote the individual development of the student, one course "Innovative Product or Process development" has been proposed in the 6th semester of the B. Tech. program.

Elective courses: These are also offered by the parent department.
The B. Tech programs will have *FOUR Elective courses*

Inter Disciplinary Elective courses: These courses are to be chosen from a list of courses offered by various departments.
The B. Tech programs will have *TWO Inter Departmental Courses*.

NUMBER OF CREDITS FRO DIFFERENT PROGRAMS

Under Graduate Program (B. Tech.) and Post Graduate (M. Tech.) programs will have 25 credits/semester and 20 credits/semester respectively. So there will be uniform credits for these programs as per the following guidelines.

Programs	No. of Credits per year
UG Degree Programs (B. Tech.)	50
PG Degree Programs (M. Tech.)	40

SKELETONS FOR STUDY SCHEMES OF DIFFERENT PROGRAMS

Skeletons for Study Schemes of some of the programs have been prepared and will be presented during the meeting.

I K Gujral Punjab Technical University
Office of Corporate Relations & Alumni

PLACEMENT POLICY 2016-17

A policy is proposed here for the Placements and related activities to bring a better coherence among the colleges and b/w University and college than the past. This policy is brought up to quantify the placements qualitatively and an effort to address the challenges faced at the college level and at the university level regarding the employability of the students of Punjab. This policy is uniformly applicable to all the colleges associated* to IKGPTU

*Associated Colleges include Affiliated Colleges, Autonomous Colleges, Constituent Colleges and University Campus

1. College will set up a Placements Cell as a separate section in their college premises.

2. College will appoint at least 01 regular person designated either as Placement Officer or as Training & Placement Officer. College will also identify Training Coordinator/s at the department level who will coordinate all the related activities with the centralized placement cell of the college.

3. College will provide a link of T&P cell on their website which will be updated regularly and it will also be evaluated as one of the components of Academic Audit done by the university. College will upload a placement brochure in the said link in which information about the university will be given before the details of the college.

4. Colleges will share the data of the final year students in the desired format (issued by the university) by August 16 every year through email only. Such data in hard copies will not be entertained.

5. Colleges will share the information of their joint campus placement drives with complete details (like number of openings, date, venue, eligibility, job profile, company profile, pay-package offered and any working bond or commercials involved) to the university 07 days prior to the date of the event. In case of solo placement drive/s, college will submit the result of the selected students with in the 15 days of the event.

6. Colleges will submit the updated placement record to University quarterly.

7. In case of a huge number of openings or in case of region specific employment opportunities, University will conduct zone wise joint campus placement drive/s of the company as per their requirement.

8. TPO at college level will develop a separate set of data of those students who are interested into placements and who are interested to pursue higher education.

9. College will ensure pre-placement preparation of the students.

10. College will also facilitate the students who are interested to pursue higher education in coordination with the HoD of the concerned department or also get facilitated to be entrepreneurs by the EDP coordinator of their college and through EDP cell of the IKGPTU

11. College TPO will ensure the participation of interested students in the placements and related events.

12. TPO/ or concerned departmental T&P coordinator will accompany the students during joint campus placement drives organised by the university.

13. College will establish Alumni Cell in accordance with their departments and will organise annual Alumni meet with the information to the University.

14. College will encourage their Alumni to register them at University alumni web-portal.

15. Student will be eligible to participate in the placement process provided he/she fulfils all academic requirement to be a eligible candidate.

16. Student, who are not interested to participate in the placement process, will submit a written declaration stating their intention for non-participation in the placement process.

17. Student will be allowed to participate in any number of Joint Campus Placement Drive/s till he/she receives a Job offer.

18. A student will convey his/her decision about (acceptance or rejection) within the time period stipulated by the company.

19. A student who gets one job offer (accepted or rejected) from the joint campus placement drives will appear for further placement drive subjected to the following:

   a. On receiving the second Job offer, he/she will accept the same and the first job offer will get invalid.

   b. Once the student procured 02 jobs offers, he/she will not considered for any further placement event unless a far better package will be offered in the subsequent events.

20. Student will participate the events with full sincerity and dedication failed to which may turn him/ her debarred to participate in the subsequent events.

21. Student will give their correct information in their resume. An in disciplinary action will be taken against the student in the situation of supplying false information at any time during the recruitment process.

22. Student will be debarred for the subsequent recruitment processes if failed to participate after giving the consent of participation in consecutive 03 campus recruitment drives.

23. Student will maintain a decorum in all interactions with company officials such as Pre Placement Talk, written exam.

24. Selected student will submit the copy of offer letter to the T&P cell of their college.

25. Colleges will recommend to the companies to furnish a waiting list for every drive along with the final offers.

26. Companies are advised to be in touch with the placement volunteers and staff at all times. While circulating any information directly to the students, college placement office should be kept in loop.

27. Any unethical or unacceptable approach of the student, college or university for the company will be handled at the university level.

I K Gujral Punjab Technical University

Office of Corporate Relations & Alumni

Training Policy 2016-17

A policy is proposed here for the Industrial Training and other trainings which are the part of the curriculum. This policy is brought up to enhance the practical enrichment among the students. This policy is uniformly applicable to all the colleges associated* to IKGPTU

Associated Colleges include Affiliated Colleges, Autonomous Colleges, Constituent Colleges and University Campus

1. College will set up a Training Cell as a separate section in their college premises.

2. College will appoint Training in Charge (*Preferably TPO will be appointed for the same*). College will also appoint Training Coordinator at the individual department level who coordinate all the related activities with the Training in Charge.

3. College will organize at least one counseling session before the start of the Training.

4. College will identify one dedicated faculty member to coordinate with a group of max 10 – 15 students during the entire training. This faculty member will handle all the administrative and academic queries of the allotted students. Students will submit monthly progress report to the assigned faculty member through email.

5. Students will finalize his/her project topic after consulting the concerned faculty mentor. The project title shall not be changed during the training without informing the Industry mentor as well as Faculty mentor.

6. College will identify a team of Training Mentors of each discipline to undertake periodic follow-ups with the students during the training. Colleges will take a follow up with Industry preferably through personal visit but if industry is at a distant place then it will be done through telephone or on skype chat. The University will also conduct surprise visits at the industry when required.

7. College will submit the details of the organization/s/ companies within the 10 days of the commencement of the training.

8. It is recommended that Students should undergo training in one of the following Industries Central or State Government departments/ bodies; Semi Government or Reputed Autonomous Bodies; Public Sector Undertakings (PSU); Industry which is ISO9001:2015 certified/Registered with State Government Industry Department or registered under companies ACT; Company which are member of major industrial association such as Confederation of Indian Industries (CII), Chamber of Industrial & Commercial Undertaking (CICU), The Indus Entrepreneurs (TiE), PHD Chamber of Commerce & Industries etc.

9. In lieu of Industrial Training Students can also opt skill development courses recognize by NSDC under NSQF level 06.

10. Colleges at the end of training will share a list of recommended company/s stream wise with the University. The college will prepare the said list on the basis of post training performance of the student in viva and their overall written feedback.

11. College will call Industry Mentors/Officials at the time of final external Viva of the concerned student if possible /available.

12. Colleges will made efforts to make student proficient in report writing, data analysis and functional skills before he starts summer training at the industry.

13. Students will give monthly reports (through email) to the deputed faculty, mentioning his/her overall progress at the industry.

14. Student will maintain a daily diary wherein he/she is required to write daily observations related to training in his/her hand writing not typed. Industry mentor will sign the daily diary. Students will also submit the detail mentioned as **Annexure – A.**

15. Students will submit an evaluation sheet and Certificate of Originality at the time of viva mentioned as **Annexure – B.**

16. In engineering courses, students will undergo Software Training component simultaneously with the Project Based Training component, however in special cases the same may be divided into two parts covering the entire semester. Students will opt software from the list given in the detailed course curriculum, *(List of Software's of each subject is available at the University website).*

17. The student will deliver a power point presentation of Summer Training (if it is mandatory in the curriculum) after joining college.

18. The student must be professional in their work and behavior. If found involved in any kind of misconduct, disciplinary action will be taken.

BRIEF PROFILE ABOUT THE COMPANY/INDUSTRY:

Area(s) of Business _____

Annual Turnover_____

EmployeeStrength_____

Expected requirement for fresh professionals in the coming year_____

Recruitment policy_____

Recruitment schedule_____

Preferred Skill Sets for prospective employees_____

Possible areas of collaboration with the Institute _____

Any other information_____

Date:

Name & Signature of Faculty

CERTIFICATE OF ORIGINALITY
(To be filled in by the student in his / her handwriting)

I_____ Roll No _____ of 2016, a full time bonafide student of final year of Bachelor of Engineering Programme of college name_____.

I hereby certify that this project work carried out by me at _____ the report submitted in partial fulfilment of the requirements of the programme is an original work of mine under the guidance of the industry mentor_____and faculty mentor_____and is not based or reproduced from any existing work of any other person or on any earlier work undertaken at any other time or for any other purpose, and has not been submitted anywhere else at any time

(Student's Signature with date)

(Faculty Mentor's Signature with date)

I K Gujral Punjab Technical University

Office of Corporate Relations & Alumni

First Draft of Entrepreneurship Development Policy 2016-17

I K Gujral Punjab Technical University has made extensive efforts in building an innovation & entrepreneurial culture at its affiliated colleges during the last 4 years. To further enhance entrepreneurship, following policy is proposed to be followed by the Associate colleges*

1. Colleges will set up an Innovation and Entrepreneurship Development Centre (IEDC).

2. Colleges will appoint 01 regular Entrepreneurship Development Officer or charge may be given to Training & Placement Officer of the college

3. Colleges will organize Entrepreneurship Expert Talks & Awareness Camps. Colleges will apply for grants for this activity from various Government and Non-Government agencies and Entrepreneurship promotional societies.

4. Colleges will identify potential upcoming entrepreneurs from students & arrange their mentoring sessions with the support of various identified agencies. Colleges will also help students in the incubation process i.e. ideation stage, company formulation, Prototype development & commencement of business.

5. Colleges should encourage students to work as interns with industries including start-ups.

6. Colleges will allow students to use existing infrastructure for caring out entrepreneurship activities.

7. Colleges will promote student start-up related activities during their festivals such as Tech Fests & Youth Fests.

8. If any student start-up represents the college or the University in a national or international event, the college will facilitate it by providing special internal examination and other similar evaluation processes, if he/ she should miss regular internal examinations due to the schedule of the event. However a prior permission of the Principal would be required before the student proceeds to attend the event.

*Associated Colleges include Affiliated Colleges, Autonomous Colleges, Constituent Colleges and University Campus

9. College will encourage students and faculty members to participate in national and state level activities like seminars, conferences, programs of Incubators and other similar programs related to Entrepreneurship/ Innovation/ IPR through duty leave.

10. Colleges will publish their entrepreneurship activities and achievements on their official website.

11. Colleges will exempt student start-ups to avail a maximum of up to 10% attendance grace based on the stage of start-ups in any semester as these students successfully pursue the start-up based on various milestones: a) Ideation stage – 2% b) Team & Company Formulation – 3% c) Working Model or Business services – 5%. Including this grace of 10%, a student will need to have at least 75% of attendance required to appear in the semester examination.

12. Student start-ups may also be considered at par with one semester Industrial training and major project.

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IKG-PTU SKILL DEVELOPMENT PROPOSAL

Introduction

It has been a long felt necessity to align higher education with the emerging needs of the economy so as to ensure that the graduates of higher education system have adequate knowledge and skills for employment and entrepreneurship. The higher education system has to incorporate the requirements of various industries in its curriculum, in an innovative and flexible manner to develop a well groomed graduate.

An employability Survey on engineering graduates (2014) concludes that less than 20% engineers are employable for IT jobs and 7.5% are employable for core engineering jobs, even though more than 90% aspire for such jobs. The key reason behind such partly employability percentages is inadequate preparation in the domain area, the ability to apply basic principles of say, computer engineering or mechanical engineering to real world problems. A skill gap study conducted by NSDC over 2010-2014 indicates that there is an additional net incremental requirement of 109.73 million skilled manpower by 2022 in twenty four key sectors. Academia as a whole has recognised the benefits of integration of industry recognized skills with regular studies.

Therefore higher education institute have to evolve some structure/system to inculcate skills to the students along with the regular studies. As being professional university, IKG Punjab Technical University may also develop skill development/enhancement programmes for the below mentioned courses running under its affiliated colleges.

1. Engineering Programmes

2. Unemployed Youth (10th, +2, Diploma, ITI holders)

### Government Framework for Skill Development

The National Skill Development Corporation India (NSDC) is the nodal agency which was setup with the primary mandate of catalysing the skills landscape in India. The main objectives of the NSDC are to upgrade skills to international standards through significant industry involvement and develop necessary frameworks for standards, curriculum and quality assurance. NSDC also collaborates with Universities to vocationalise education through specific training programs, evolution of credit framework, entrepreneur development, etc.

1. Sector Skills Councils

Sector Skill Councils (SSCs) are set up as autonomous industry-led bodies by NSDC. These SSCs create Occupational Standards and Qualification bodies, develop competency framework, conduct training for the Program Trainers, conduct skill gap studies and Assess and Certify trainees on the curriculum aligned to National Occupational Standards developed. Till date, the NSDC Board has approved proposals for **38 Sector Skill Councils**. There are approximately 450 Corporate Representatives in the Governing Councils of these SSCs. The list of SSCs is given below.

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New sectors such as Green Jobs, PwD targeted for FY 2015-16
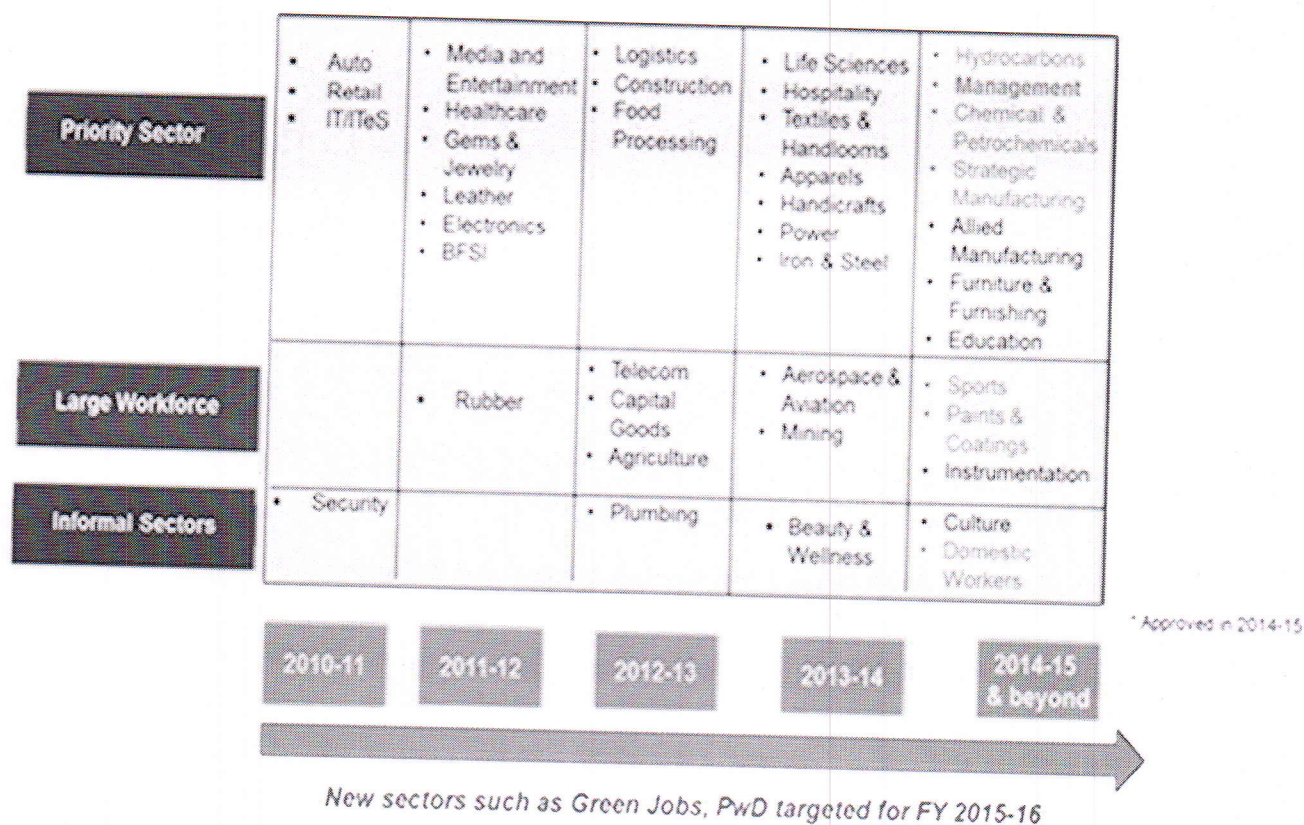
2. National Skill Qualifications Framework NSQF

The National Skills Qualifications Framework (NSQF) is a competency-based framework that organizes all qualifications according to a series of levels of knowledge, skills and aptitude. These levels, graded from one to ten, are defined in terms of learning outcomes which the learner must possess regardless of whether they are obtained through formal, non-formal or informal learning.

NSQF in India was notified on 27th December 2013. All other frameworks, including the NVEQF (National Vocational Educational Qualification Framework) released by the Ministry of HRD, stand superseded by the NSQF.

IKG PTU seeks to integrate NSQF within academic curriculum at all levels of education in order to enhance employability of the graduates and meet industry requirements. Such graduates apart from meeting the needs of local and national industry are also expected to be equipped to become part of the global workforce. MHRD has decided that AICTE will run the PMKVY and applications are to be invited accordingly from all the engineering colleges and Polytechnics approved by the AICTE to train the unemployment youth in engineering skills.

The Engineering Colleges/Polytechnics will utilize their existing infrastructure for offering these courses in the off-college hours so that unemployed youth enrolled for these courses shall acquire adequate skills for certification under NSQF and find placement in suitable private sector jobs or self employment.

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Objective

The main objective of the scheme is to impart engineering skills for 10 Lac youth in the next 3 years, aimed to: Encourage the institutions for making the best use of available infrastructure of higher education system during off hours for skill training.

- Provide employable and certifiable skills based on National Occupational Standards (NOS) with necessary soft skills to the school dropouts who want to pursue/attain higher order skills while living in the vicinity of College
- Based on the merit of the proposal the state level Steering Committee will recommend institution under the scheme for the approval of National level Steering Committee in AICTE/MHRD.

Program and Curriculum

These Engineering Colleges/ Polytechnics will offer credit-based modular programmes, as per the available job roles/Qualification Packs prescribed by the respective Sector Skill Council/approved by National Skill Qualification Committee (NSQC). NSQC is the apex body to approve NOSs and QPs as per NSQF Notification.

Assessment

The Skill component of the course will be assessed by the respective Sector Skill Councils as per the norms which are prescribed by NSDA/ NSQF approved independent third party agency approved by NSDA. The Institutions should adopt and integrate the guidelines and recommendations of the NSDA for the assessment and evaluation of the skill component, wherever available.

Infrastructure

The Technical Institutions/Polytechnics approved under the Scheme shall operate in their existing buildings and premises. They may also use industry sites and /or NSDC/AICTE approved training partners/SKPs wherever required for imparting necessary skills. Each institute needs to have adequate laboratory / workshop facilities for face-to-face delivery of skills and hands-on practice either owned, arranged through tie up with the partner industry or NSDC /AICTE approved training partners.

Funding

The following expenses would be funded by the Central Government through an online DBT portal:
a. Cost of the trainers as per the prescribed level.
b. The recurring cost of maintaining the facilities
c. Cost of placement and post placement costs as per prescribed norms

- Rs. 40.50 per hour of training for trades/sectors listed in Category-I of Schedule-II.
- Rs 35/- per hour of training trades/sectors listed in Category II of Schedule-II.
- Rs.28.50 per hour of training trades/sectors listed in Category III of Schedule-II.

UGC/AICTE Guidelines and Academic Equivalence

The UGC guidelines for Curricular Aspects, Assessment Criteria and Credit System for Skill development courses is in connection with the NSQF level which is utilized as a tool for

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equivalence to the academic qualifications at par with equal number of credits awarded by any institutions in related specializations.

National Skill Qualifications Framework (NSQF) has defined 10 levels of competency. **UGC has written to all universities** that students coming out with Level-4 certificates in Vocational Education should be given equal weightage and considered for admission into degree courses.

UGC guidelines for Skill Development courses according to the NSQF are as following:-

Level	Expected Level of competency as defined under NSQF	Proposed Academic equivalence
Level – 1	No responsibility, always works under continuous instruction and close supervision.	Pertains to school level education
Level – 2	No responsibility, works under instruction and close supervision.	Pertains to school level education
Level – 3	Works under close supervision. Some responsibilities for own work within defined limit.	Pertains to school level education
Level – 4	Responsibility for own work and learning.	Pertains to school level education
Level – 5	Responsibility for own work and learning and some responsibility for other's work and learning.	Diploma
Level – 6	Responsibility for own work and learning and full responsibility for other's works and learning.	Advance Diploma
Level – 7	Full responsibility for output of group and development.	Graduation
Level – 8	Exercise management and supervision in the context of work/study having unpredictable changes, responsible for development of self and others.	Honours at Under-Graduate level
Level – 9	Responsible for decision making in complex technical activities, involving unpredictable study/work situations.	Masters
Level – 10	Responsible for strategic decisions in unpredictable complex situations of work/study.	Doctoral

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Although academic higher education courses (such as academic degrees) are not covered in the NSQF, it may be broadly aligned with the prevailing framework for higher education qualifications, allowing levels of acquired competency to be compared with the academic degrees as suggested below :
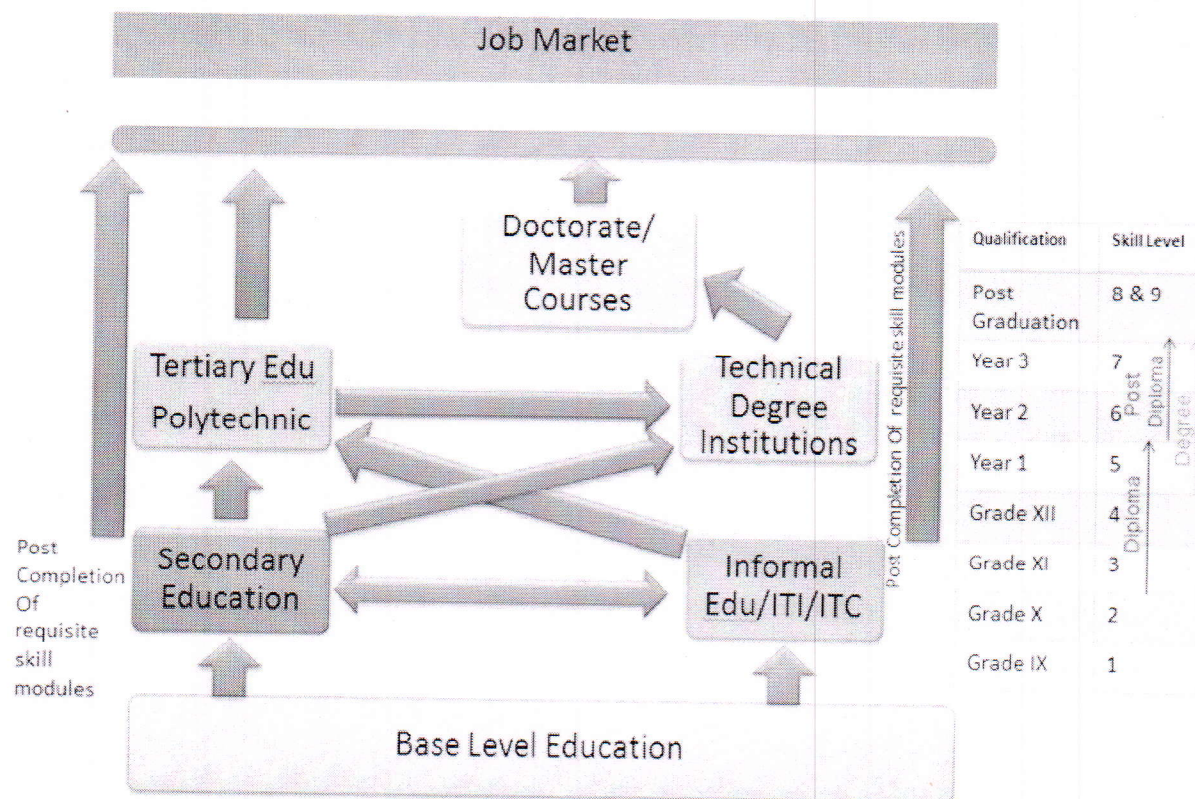
Therefore, it is suggested that PTU may offer Skill development courses to affiliated courses which are from Level4 – Level 7 on National Skill Qualification Framework (NSQF).

Infrastructure Requirements

Adequate laboratory /workshop facilities for face to face delivery of skills and hands-on practice either owned or arranged through tie-up with the partner industry will be needed. The existing institutes/college affiliated with IKG PTU already having a huge infrastructure that may be used to inculcate the skill to the existing students and dropouts may be in the evening or on weekends.

College should use its regular faculty for the conduct of general education component and also for the skills components, if existing. Additionally, they may hire faculty on contractual basis and guest faculty in the core trades only as per University norms.

Financial Viability

The constituted committee may fix fee structure as per the prevalent mechanism. Programmes will be evaluated and monitored by the university/college through its existing mechanism or by setting up an alternate mechanism, with involvement of industry representatives. The government/industry grants wherever applicable may be used to enhance the quality.

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Examination and Assessment

The assessment for the general education component will be done by the University as per their prevailing standards and procedures.

The assessment for the skill development components will necessarily focus on practical demonstrations of the skills acquired. The university may consult the respective Sector Skill Council for designing the examination and assessment pattern for the skill development components. The university will establish a credit based Assessment to make its students more employable and industry ready.

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Skill Development Model IKG PTU

IKGPTU will play a leading role in the National Skill Development Mission to fulfil the growing need for skilled manpower across sectors and narrow the gap between demand and supply of skilled manpower and provide employable skills to the youth.

In order to provide skill based education to the students, following skill development model is proposed:

A. For Under Graduate Courses (Engineering)

1- Training semester in the UG programmes will be split into two parts with 50% of the time to be devoted to skill development as per the curriculum developed by skill sector councils under NSQF and remaining time will be used for industrial training.

2- Skill based modules will be introduced in the existing program of Engineering. The course curriculum of B.Tech programmes will be reviewed to find the gaps to align the courses with respective NSQF curriculum. It will be introduced in the form of add-on modules to the existing curriculum. After the completion of each module, evaluation for the module will be done as per SSC guidelines and completion certificate will be issued by concerned SSC.

    2.1 MOU will be signed with the NSDC for implementation of the above programs. NSDC model to integrate skill based training into the academic cycle of the Universities will be adopted. The salient features of the model are as given below:

- Identification of sectors and job roles corresponding to various programmes of the University.
- Curriculum alignment with NSQF.
- Faculty identification from the affiliated colleges to work as trainers in the skill component.
- Faculty Development Programme(s) to train the trainers.
- List of the basic Infrastructure required for labs and practical sessions to be made. It will help in establishment of Labs equipped with required equipment / for the particular QP as specified by Sector Skill Council.

- Integration of skill development programme into time table as per university norms or e.g.: colleges can allocate three sessions (60 - 90 minutes) per week.

- The assessment & certification by respective SSC for which the fee will be paid to SSCs as per norms approved by NSDC/SSCs.

B. Unemployed Youth (10th, +2, Diploma, ITI holders)

The dropouts, 10th pass, 10+2 pass, ITI certified will be offered courses as per NSQF with the option of multiple entry and exit.

These courses will be offered in AICTE approved institutes using the existing infrastructure. Under the scheme all eligible institutions will have to offer skill training for around 250 Hrs to a batch of 100 students based on National Occupation Standards

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(NOS) in Engineering Skills. IKGPTU will forward the scheme to all affiliated colleges for implementation of the same in the colleges.

1) All eligible Institutions will offer these programs using the existing infrastructure.
2) The programmes will be aligned to National Occupational Standards (NOS) developed by SSCs.
3) Skill enhancement courses will be started on evening and weekend basis.

4) Implementation and assessment will be as per the SSCs guidelines.

5) To impart the training, trainers will be trained by recognised training institute(s).

C. New NSQF Courses (for 10+2 students)

IKGPTU will motivate colleges to start skill based programmes based on National occupation standards developed by NSQF from level 5 to 8. These courses will be of four to five months duration. After the successful completion of the level 5 programme, the student will have the option to register for level 6 programme.

D. Admission, Affiliation and Monitoring

1) Guidelines for admission, affiliation and monitoring will be developed separately.

E. General guidelines for curriculum review

1. First year curriculum of all engineering programmes will be modified to make it more practical oriented with clearly defined programme outcomes and course outcomes. Laboratory contents of all engineering programmes will be linked and depth of knowledge and skill requirements should increase from first year to final year.

2. To improve the soft skills of engineering graduates, presentations/ group discussions will be incorporated in all subjects.

3. To improve team working in the students, group-based assignments and projects will be introduced.

4. To improve the problem solving skills including defining and analyzing the problem, the students will be made to use the problem-solving tools.

5. Emphasis will be given on quality, productivity, sustainability and environmental aspects in the curriculum.

6. Evaluation system will be developed to evaluate the learning outcomes.