

AGENDA POINTS FOR 51st MEETING OF ACADEMIC COUNCIL SCHEDULED TO BE HELD ON 16th OCTOBER, 2018 AT 02:30 PM AT IKG-PTU MAIN CAMPUS

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AGENDA FOR 51st MEETING OF ACADEMIC COUNCIL SCHEDULED TO BE HELD ON 16TH OCTOBER, 2018 AT 02:30 PM AT IKG-PTU MAIN CAMPUS**A. STATUTORY AGENDA****51.01 To confirm the proceedings of 50th Academic Council meeting held on 13th May, 2017.**

The 50th Academic Council meeting was held on 13th May, 2017 and the proceedings were circulated to all members for information and comments, if any (copy is enclosed at **Annexure – I**).

No comments have been received.

The approved proceedings of the 50th Academic Council are placed before Academic Council for confirmation please.

51.02 Action Taken Report (ATR) of the 50th Academic Council Meeting.

The status of Action Taken Report (ATR) on the decisions of the 50th meeting of the Academic council is enclosed as **Annexure – II**.

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

51.03 Award of Ph.D.

On the recommendations of the RDC the candidates as per **Annexure – III** have completed the requirement for the award of Ph.D. degree.

The matter is placed before the Academic Council for its recommendations to the BOG for approval.

B. AGENDA FOR DISCUSSION & REVIEW**51.04 Implementation of Tuition Fee Waiver Scheme for Admission in Non-AICTE courses.**

As per Punjab Government notification for B. Tech. course, Institutions affiliated to PTU shall follow 'Fee Waiver Scheme' as prescribed by AICTE and notified by Government of Punjab vide its Notification No. 13/60/08–

1TE2/1797 dated 23rd May, 2011, 13/60/08– 1TE2/2007 dated 31.05.2012 and 13/60/08-1TE2/2092 dated 18.7.2013 (**Annexure- IV**).

A number of requests have been received from different colleges to allow them to make admissions under tuition fee waiver scheme in Non-AICTE courses also.

Therefore, it is proposed that Non-AICTE Colleges may also be allowed to make admissions under "Fee Waiver Scheme" on the pattern of AICTE.

The matter is placed before the Council for approval.

51.05 To approve minutes of various Board of Studies for revision of syllabus / scheme/ nomenclature of courses.

Keeping in view the demand of the Industry and latest trends in technical education, various Board of Studies of the University have revised the course curriculum /scheme/ nomenclature of different courses.

Chairman, Academic council has approved the same and are already implemented. The list of courses for which curriculum was revised is placed at **Annexure -V**. The revised scheme and syllabus is available on University website <https://www.ptu.ac.in/Syllabus/..aspx>

Item is placed before the council for ratification

51.06 To extend date of passing of qualifying examination for admission to AICTE/Non-AICTE Courses due to late declaration of results after 15th August.

As per University Regulations, the last date for admission and date of passing of qualifying examination for admission to AICTE Courses is 15th August. However, the result of qualifying examination of some of the boards / Universities of Jammu and Kashmir, Nepal etc. is generally declared after 15th August i.e. last date of admission.

Moreover, due to disturbance in the State like Jammu and Kashmir, the students are suffering hardship and such students are deprived from taking admission under Government Universities or have to drop their precious year.

In view of the above, it is proposed that the last date of passing qualifying examination for admission may be extended to 31st October every year onwards instead of 15th August for above such cases and these students be provisionally admitted and eligibility may be verified upto 31st October every year. The last date of admission shall remain same i.e. 15th August every year.

The matter is placed before the Council for approval.

51.07 To grant Golden Chance to old students.

University has received number of request applications from students who have completed their academic requirements but have not completed their degree due to failure in one or more subject/s, even after expiry of maximum allowed of time duration.

The cases were presented on the file to the Vice-Chancellor. As a precedent and keeping in view the career of all such students the case is placed before the Council for approval

The item is placed before the Council for approval .

51.08 Re-constitution of UMC Standing Committee for Regular and Distance Mode Students.

As per agenda item No. 8.39 of 8th Academic Council, standard constitution of UMC Committee is as under :

- (i) A Retired Judge
- (ii) An Academician
- (iii) An Administrator

Further, as per Regulations of Unfair means cases in Part-1 General at Sr. No. 3, for the appointment of UMC Standing Committee which is also reproduced below:

“The Board of Governors shall annually appoint a Standing Committee consisting of four persons, one of whom shall be the Registrar of the University or his nominee not below the rank of Deputy Registrar to deal with

the cases of alleged uses of unfair means and / or misconduct in relation to an examination. Two members shall form the quorum.

The item is placed before the Council for proposing names, as per (i), (ii) and (iii) above.

51.09 To provide evaluated copy of Answer Sheet/s of theory papers to the concerned student.

For more transparency in the evaluation of answer sheets of theory papers and to discourage the re-evaluation trend among students studying in various campuses and affiliated colleges of University, it is proposed to provide scanned copy of evaluated answer sheet/s to the concerned student. To avail this facility, student shall be required to apply within 10 days from declaration of result through login ID of Head of department and a fee of Rs. 500/- shall be charged per answer sheet.

Mumbai University and CBSE, New Delhi is already providing this facility to their students.

This facility shall be made available to each and every student, including student appearing in any Special Chance Examination etc. For any such students, including where Login facility is not available, he /she shall fill the examination form manually and shall have to deposit the requisite fee in the shape of DD, payable to Registrar, I.K. Gujral Punjab Technical University Jalandhar payable to Jalandhar.

The item is placed before the Council for deliberation and approval.

51.10 To dispose of old records of Academics related to Admissions/ Migration etc. of students.

There is enough old records of the Academics which is preserved since the establishment of University. Due to shortage of storage space, it is proposed that the old records related to eligibility of students, migration of students etc. may be disposed off after a time period equal to the double the duration of courses i.e. if the course duration is 4 years, the record may be disposed off after eight years.

The item is placed before the Council for approval.

51.11 Rationalization of Internal/sessional marks.

It was observed that some private colleges are awarding more than 90% of Internal marks to all the students and some good institutes are awarding Internal marks between 60% - 90%. There is no mechanism for rationalization /verification of the internal / sessional marks awarded by the affiliated colleges.

A committee was constituted to give recommendations regarding rationalization / verification of internal / session marks. The recommendations of the committee are placed at **Annexure – VI**.

The item is placed before the Council for deliberation and approval.

51.12 Additional subject Punjabi/Punjab History and Culture in B.Sc. Agriculture.

In the curriculum of B.Sc. (Agriculture)/ B.Sc. – Honours (Agriculture), Punjabi Language is compulsory subject of the curriculum. As most of the students from other states take admission in the course of B.Sc. (Agriculture)/ B.Sc. – Honours (Agriculture) in affiliated colleges.

Such students face difficulty due to language problem and could not pass this subject. The other Universities like GNDU has option for subject of Punjab History and Culture in place of Punjabi Language.

Therefore, in view of the above, it is proposed that student of B.Sc. (Agriculture)/ B.Sc. – Honours (Agriculture), may be given option to choose either Punjabi Language or Punjab History and Culture.

The item is placed before the Council for approval.

51.13 Improvement in Grade and (ii) Consideration of Case/s in grading system at par with 40% pass rule.

University implemented absolute grading system in its affiliated institutions in 2015. University is receiving requests from students regarding permission for (i) Improvement in Grade and (ii) Consideration of Case/s in grading system at par with 40% pass rule (of the percentage system) who have completed their degree program in 2017 and 2018 under this grading system.

Vice Chancellor constituted a committee of the following for recommendations on both the issues:

- (1) Director cum Principal, DAVIET Jalandhar
- (2) Director (Academics)
- (3) Deputy Controller (conduct)

Recommendations of the committee are placed at **Annexure-VII** for approval of the Council.

51.14 Introduction of MOOCs Courses

A letter was received from UGC vide D.O. No.F.1-1/2017(Secy) dt. 13 July, 2017 regarding online courses on the SWAYAM portal. (**Annexure-VIII**).

To implement the MOOCs courses, it is proposed that as per the guidelines of regulatory body, a student will be eligible to get Under Graduate degree with Honours if he/she completes an additional 20 credits in the stipulated period for the completion of degree. The students can also acquire upto 20% of credits through MOOCs and these credits shall be accepted and transferred to the total credits of the concerned students by the University for completion of his / her degree. The courses and evaluation guidelines for the same will be recommended by concerned BOS and approved by Vice Chancellor. A separate mark sheet one time for MOOCs courses will be issued by examination branch.

The further guidelines are available on : <https://www.aicte-india.org/downloads/MHRD%20moocs%20guidelines%20updated.pdf>

The item is placed before the Council for deliberation and approval

51.15 To ratify the decisions taken by the Chairman, Academic Council in anticipation of the approval of the Academic Council.

51.15.1 Academic Calendar for session 2018-19.

Academic Calendar for session 2018-19 has been approved by the Chairman, Academic Council after considering observation of the affiliated colleges and has been uploaded on the University website and the same is placed at **Annexure – IX**.

The item is placed for ratification.

51.15.2 Change of Nomenclature of some of the UGC (Non-AICTE) courses as per UGC nomenclature.

Based on the recommendations of the various Board of Studies in view of UGC Regulations, Chairman, Academic Council has approved changes of nomenclature / duration of following courses :

UG Courses

Sr. No.	Existing Nomenclature	Proposed Name of the course as per UGC nomenclature	Duration
1.	B.Sc. (Agriculture)	B.Sc. – Honours (Agriculture)	04 Years (8 sem)
2	Bachelor of Management Studies (Airlines Tourism and Hospitality)	Bachelor of Tourism and Travel Management (BTM)	04 Years (8 sem)
3	Bachelor of Management Studies (Health, Spa and Resort)	BBA (Health, Spa and Resort)	03 Years (6 sem)
4	Bachelor of Management Studies (Hotel Management & Catering Technology)	Bachelor of Hotel Management & Catering Technology (BHMCT)	04 Years (8 sem)
5.	Bachelor of Management Studies (Rural Development)	BBA (Rural Development)	03 Years (6 sem)
6	Bachelor of Management Studies (Service Industry Management)	BBA (Service Industry Management)	03 Years (6 sem)
7	Bachelor of Management Studies (Mobile Computing & Internet)	B. Sc. (Mobile Computing & Internet)	03 Years (6 sem)

PG Courses

Sr. No.	Existing Nomenclature	Revised name of the course as per UGC nomenclature	Duration
8	M.Sc. (MLT)	M.Sc. in MLT (Bio-	02 Years

		chemistry)	(4 sem)
9	M.Sc. Food Science & Technology	M.Sc. Food Technology	02 Years (4 sem)
10	Master of Management Studies (Airlines Tourism and Hospitality)	Master of Tourism and Travel Management (MTTM)	02 Years (4 sem)

The item is placed for ratification.

51.15.3 Closure of Courses

Following courses are not being opted by any institute since last 2-3 years. The University has deleted the names of these courses from the list of approved courses of IKGPTU w.e.f session 2018-19 with the approval of Chairman, Academic Council and notified vide No. IKGPTU/Reg/N/1845-1852 dt. 16.05.2018 (copy attached at **Annexure-X**) :

1. M.Sc. (Public Health Program)
2. Master of Management (Education and Counselling)

The item is placed for ratification.

51.15.4 Schedule and eligibility conditions for admission to AICTE/Non-AICTE Courses from the session 2018-19 onwards.

Requests were received from colleges to allow the compartment students for taking Provisional admission to Non-AICTE courses on the pattern being followed by other State Universities of the Punjab State like GNDU, Amritsar, Panjab University, Chandigarh and Punjabi University, Patiala.

In view of the above, a committee was constituted to give recommendations on the followings :

1. Eligibility conditions for admission to various Non-AICTE courses as per UGC and other State Universities in the State of Punjab :
2. Schedule Calendar of admissions for AICTE and Non-AICTE courses.

The recommendations of the committee were approved by the Chairman, Academic Council and notified vide No.IKGPTU/Reg/N/2010 dt. 01-06-2018 (copy placed at **Annexure- XI**).

The item is placed for ratification.

51.15.5 Issue of Equivalence for admission to Foreign Students.

Academic Council in its 41st meeting under item No. 41.23 has decided that *equivalence for the education obtained by the foreign students shall be checked from the book published by AIU.*

However, the names of the some Universities / boards of some Countries are not available in the book published by AIU. Passed out students from such institutes / countries approached to the University for confirmation of their admission. The Chairman, Academic Council constituted a committee and authorized the committee to issue equivalence certificate to such students. The notification of same was issued vide No. IKGPTU / REG / OO / 525 - 529 dt. 23-03-2018 **(Annexure –XII) to grant equivalency certificate for admission under IKGPTU to those students whose foreign equivalency is not available in the AIU Booklet or for which AIU is not providing equivalency certificate:**

1. Dean (Academics), IKGPTU
2. HOD/Professor, Mechanical Deptt , IKGPTU
3. Principal, PCTE, Baddowal
4. Deputy Registrar (Academics), IKGPTU.

The item is placed for ratification.

51.15.6 Shifting of colleges from MRSPTU to IKGPTU

In pursuance to Punjab Gazette Government notification No. 31-PLA-2017/70 dt. 28th November, 2017 regarding shifting of colleges from MRSPTU to IKGPTU, one time choice was given to the colleges which come under the territorial limits of the University to get themselves affiliated with the University of their choice i.e. either with the I.K. Gujral Punjab Technical University, Jalandhar or the Maharaja Ranjit Singh Punjab Technical University, Bathinda.

After receiving the choices from such colleges in writing, Chairman, Academic Council has approved affiliation to 35 Colleges (as per **Annexure - XIII**) again with IKGPTU.

The item is placed for ratification.

51.15.7 Establishment of new colleges

University has issued an advertisement for starting of new colleges as per AICTE/ University norms. After going through approval process i.e. presentation, inspection and deposit of requisite fee of affiliation, Chairman, Academic Council has approved Establishment of new colleges (8 AICTE and 8 Non-AICTE) during session 2018-19. The list of these colleges is placed at **Annexure – XIV.**

The item is placed for ratification

51.15.8 Starting of new courses and Variation in sanctioned intake in existing colleges

During session 2018-19, new courses and Variation in sanctioned intake in the existing colleges has been approved by Chairman, Academic Council in 52 colleges. The list of courses / seats of the same is placed at **Annexure – XV.**

The item is placed for ratification.

51.15.9 Starting of Bachelor of Vocational (B.Voc.) courses : (AICTE/ UGC)

On the directions issued by NSDC, Government of India, University has approved starting of B.Voc courses in some of the AICTE and Non-AICTE Colleges w.e.f. session 2018-19. The List of courses alongwith colleges offering the respective course and guidelines are placed at **Annexure–XVI.**

The item is placed for ratification.

51.15.10 Induction of New Courses from session 2018-19.

AICTE has issued approval of B. Pharmacy (Practice) course in some of affiliated colleges w.e.f. session 2018-19. The same was introduced in the list of AICTE courses of IKGPTU with the approval of Chairman, Academic Council. This course is added to the list of approved courses of IKGPTU.

Sr. No.	Name of the Course	Duration	Eligibility	

1	Bachelor of Pharmacy (Practice)	2 Academic Years	Minimum qualification for admission to the course – i. A pass in Diploma course in Pharmacy from an institution approved by the Pharmacy Council of India under section 12 of the Pharmacy Act, 1948. ii. A registered pharmacist. iii. A minimum of four years of pharmacy practice experience in a community or hospital pharmacy– (a) A certificate from competent authority stating that the candidate is endorsed as registered pharmacist in the drug license of a pharmacy as proof of practice experience in case of community pharmacist (b) A certificate from the Principal/Medical Superintendent/competent person of the Hospital/Health Unit stating that the candidate is working as a pharmacist will be accepted as proof of practice experience in case of hospital pharmacist iv. A 'No Objection Certificate' from the employer in prescribed format.	PCI
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The item is placed for ratification.

51.15.11 Starting of new courses / variation in sanctioned intake in University Main Campus and constituent campuses

As per demand raised by Directors of respective main/constituent campuses and subsequent approval of Chairman, Academic Council, some new courses and variation in sanctioned intake in some of courses was allowed in respective campuses w.e.f. session 2018-19. The detail is attached at **Annexure –XVII.**

The item is placed for ratification.

51.15.12 Start of B. Tech (Plastic Technology) course and constitution of Board of Studies of Plastic Technology.

Item was placed before the Council in its 50th meeting under item No. 50.11 but the item was deferred due to the decision of the University of not to open any new college /grant of new course/extension of seats in affiliated college in the session 2017-18.

Amritsar College of Technology, Amritsar has received approval from AICTE to start new course i.e. B. Tech (Plastic Technology).

In view of the above, Chairman Academic Council approved starting of B. Tech. (Plastic Technology course) and constitution of Board of Studies for B. Tech. (Plastic Technology) course.

The item is placed for ratification.

51.15.13 Eligibility Criteria for admission, duration and fee structure of various courses

The eligibility criteria and duration of already running courses as per AICTE/UGC/Punjab Government as recommended by concerned Board of Studies for various courses for session 2018-19 was reviewed. It was circulated to all concerned for their comments. No comments were received by due date. The compiled list of eligibility criteria alongwith duration of courses for AICTE /Non-AICTE (UGC) courses and the fee structure of respective courses are attached at **Annexure – XVIII.**

The item is placed before the council for ratification.

51.15.14 To implement AICTE Curriculum from session – 2018-19.

AICTE has published Model curriculum for UG & PG (AICTE) Courses for the session-2018-19. Various meetings of Chairpersons of Board of Studies were held. After deliberation, it was recommended that IKGPTU shall adopt AICTE Model Curriculum for all AICTE Courses with 10-15% variation in curriculum as per the need of the society. The same was approved by the Chairman, Academic Council and notified.

The item is placed before the council for ratification.

51.15.15 Adoption of course and its curriculum which were already running in Colleges shifted from MRSPTU to IKGPTU.

Department of Technical Education and Industrial Training, Chandigarh Government of Punjab vide memo No. 108-109 dt, 22.01.2018 has given onetime choice to colleges to shift from MRSPTU to IKGPTU. Accordingly, University has given advertisement in the leading newspapers and some colleges have decided to shift from MRSPTU to IKGPTU.

There were some courses which were running in the colleges before shifting from MRSPTU, Bathinda and are not in the list of courses being offered by IKGPTU, Jalandhar. This has created problem to some of Institutes/ students enrolled in such courses. Therefore, it was decided that the courses along with curriculum which are running in these colleges before shifting from MRSPTU to IKGPTU may be adopted in toto. The decision was approved by the Chairman, Academic Council.

The item is placed before the council for ratification.

51.16 Items received from different colleges

51.16.01 NBA accreditation

A representation has been received from DAVIET, Jalandhar in which it has been requested that as per AICTE directions, NBA Accreditation is mandatory for all the institutions by 2023. In order to facilitate the institutions to get accredited, the following revisions are suggested to align the academic regulations in accordance with NBA guidelines :-

- (i) There should be no choice in Mid Semester tests. Both the MSTs should be made compulsory for all the students.
- (ii) The questions in University question papers should be mapped with course outcome along with knowledge level.
- (iii) The University pass percentage of each course / subject should be declared alongwith result.
- (iv) The net percentage marks scored by all students for particular question should also be announced by University.

Question paper pattern and guidelines for paper setter is placed at **Annexure – XIX.**

The item is placed before the Council for deliberation and approval.

51.16.02 Introduction of new courses

Keeping in view the latest trends in technical /professional education and demand of the society requests have been received from different colleges to introduce new courses in IKGPTU approved list of courses. The list of proposed courses is placed at **Annexure – XX**.

The item is placed before the Council for deliberation and approval.

51.17 Any other item with the permission of the Chair.



ਆਈ. ਕੇ. ਗੁਜਰਾਲ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ ਜਲੰਧਰ, ਕਪੂਰਥਲਾ

I. K. GUJRAL PUNJAB TECHNICAL UNIVERSITY JALANDHAR, KAPURTHALA

ਰਜਿਸਟਰਾਰ ਦਫ਼ਤਰ
OFFICE OF REGISTRAR

Ref. No. IKGPTU/REG/ 501

Dated 16/5/17

All Members, Academic Council of
IKG Punjab Technical University
Jalandhar

Subject : Minutes for 50th Academic Council meeting.

Sir /Madam,

Please find attached minutes for the 50th Academic Council meeting held on 13th May, 2017 at 11:00 am at IKG PTU Main Campus, Jalandhar-Kapurthala Highway.

Yours sincerely


Registrar

"Propelling Punjab to a Prosperous Knowledge Society"

I. K. Gujral Punjab Technical University

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MINUTES OF 50th MEETING OF ACADEMIC COUNCIL HELD ON 13th MAY, 2017 AT 11.00 AM AT IKG-PTU MAIN CAMPUS.

Item No. 50.01: To confirm the minutes of 49th Academic Council meeting held on 27th June, 2016.

The council confirmed the minutes of 49th Academic Council meeting.

Item No. 50.02: Action Taken Report (ATR) of the 49th Academic Council Meeting.

The council noted the action taken report of 49th meeting of the Academic council.

It was informed that in UGC guidelines it is recommended to hold minimum three meetings of the council in a year. Accordingly it was decided to fix the schedule of three meetings, which shall be as under Meetings shall as under:

- 1st Meeting: 1st working day of April
- 2nd Meeting: 1st working day of August
- 3rd Meeting: 1st working day of December

Item No. 50.03: Award of Ph.D.

The council recommended following candidates for award of Ph.D. degree to Board of Governors (BOG):

S. No	Registration No.	Date of Viva-Voce	Name	F. Name	Faculty	Branch
1.	1003005	13.06.16	Manish Mahajan	Rakesh Mahajan	Engineering	Computer Science and Engineering
Title of Thesis: Data embedding in rgb images using wavelet domain based visual saliency map						
2.	1003006	15.07.16	Neeraj Mohan	Hans Raj	Engineering	Computer Science and Engineering
Title of Thesis: Traffic grooming and survivability in optical networks						
3.	1109034	02.06.16	Afroze Nazneen	Aftab Ahmad	Business Administration	Management
Title of Thesis : Organizational role stress, organizational commitment and job satisfaction among faculty of higher technical educational institutions: a comparative study of punjab and up.						
4.	07.32.09	25.05.16	Kiran Utreja	P.L. Kinger	Applied Sciences	Mathematics
Title of Thesis : A comparative study of fixed point theorems in various spaces						

5.	1306027	06.05.16	Sunpreet Singh	Baljinder Singh	Engineering	Mechanical Engineering
Title of Thesis : Experimental investigations for development of metal matrix composite prepared by combining fused deposition modelling and investment casting.						
6.	1310021	10.06.16	Tarun Garg	Ram Babu Garg	Pharmaceutica I Sciences	Pharmacy
Title of Thesis : Development and characterization of novel particulate carrier system for pulmonary delivery of antitubercular drugs.						
7.	1210019	28.07.16	Goutam Rath	Brundaban Rath	Pharmaceutica I Sciences	Pharmacy
Title of Thesis : Development and characterization of novel carriers for wound healing.						
8.	17.17.10	01.08.16	Vijay Kumar	Ram Dutt	Engineering	Computer Science and Engineering
Title of Thesis : Performance improvement of eld system using soft computing techniques.						
9.	02.32.08	26.08.16	Paramjit Singh	Harbox Singh	Engineering	Electronics & Communication Engineering
Title of Thesis : Improved qos for communication networks based on fuzzy logic routing mechanisms.						
10.	1314011	22.07.16	Vijay Rana	Gagan Singh	Applied Sciences	Computer Applications
Title of Thesis : Design of an intelligent agent-based control for ontology matching in semantic web.						
11.	1114027	31.08.16	Tejinder Pal Singh	Surjit Singh Brar	Applied Sciences	Computer Applications
Title of Thesis : Design of a customer centric technological model of e-banking.						
12.	1009030	22.08.16	Pretty Bhalla	Jiwan Singh Bhalla	Business Administration	Management
Title of Thesis : A study of organisational culture, job satisfaction and organisational role stress in retail sector.						
13.	1009055	23.08.16	Vikram Jeet	Kanshi Ram	Business Administration	Management
Title of Thesis : A study of human resource management practices, organizational commitment and job satisfaction in self financed & government educational institutions.						
14.	1109104	23.08.16	Rohan Sharma	Dinesh Sharma	Business Administration	Management
Title of Thesis : Children's behaviour towards television advertisement and its impact on family purchase decisions.						
15.	1209039	30.08.16	Tejbir Kaur	Piara Singh	Business Administration	Management
Title of Thesis : A study of job bumout & job satisfaction in relation to organizational culture –a comparative study of public & private universities.						
16.	1005003	07.09.16	Balwinder Singh	Ujagar Singh	Engineering	Electronics and Communication Engineering
Title of Thesis : Development and optimization of fractal patch antennas for medical and communication applications.						

Handwritten signature and date 16/5/17

17.	1009036	09.09.16	Rajesh Tiwari	Harikishore Patti Tiwari	Business Administration	Management
Title of Thesis : Managerial perspectives in Higher Education in Indian Universities: A Study of Northern India.						
18.	1313002	03.10.16	Harkaran Singh	Pritpal Singh	Applied Sciences	Mathematics
Title of Thesis : Mathematical modeling and analysis of population dynamics and epidemiology.						
19.	07.11.07	10.10.16	Kanwaljeet Kaur	Sadhu Singh	Applied Sciences	Mathematics
Title of Thesis : Wave propagation in non- homogeneous viscoelastic media.						
20.	1006014	21.10.16	Rakesh Kumar	Doolo Ram	Engineering	Mechanical Engineering
Title of Thesis : Study of heat and mass transfer for liquid desiccant with celdek packed absorber/regenerator.						
21.	1109038	25.10.16	Tania Mengi	Vijay Mengi	Business Administration	Management
Title of Thesis : A comparative analysis of eva & traditional accounting measures as drivers/ predictors of mva: a study of selected indian companies.						
22.	11.76.09	27.10.16	Shubh Kamna	Om Prakash Chauhan	Business Administration	Management
Title of Thesis : An analytical approach to mutual funds in India.						
23.	1213005	07.11.16	Amit Sharma	Manohar Lal	Applied Sciences	Mathematics
Title of Thesis : Stability analysis of plankton dynamic in spatiotemporal domain: emphasizing the impact of delay.						
24.	1005004	14.11.16	Bharat Naresh	Khazanchi Lal	Engineering	Electronics and Communication Engineering
Title of Thesis : Design of energy efficient digital filter in communication.						
25.	11.61.08	17.11.16	Sugandha	Satish Garg	Business Administration	Management
Title of Thesis : Work life balance in service industry with respect to banking and insurance services.						
26.	1210039	18.11.16	Minky Mukhija	Amrit Lal Mukhija	Pharmaceutical Sciences	Pharmacy
Title of Thesis : Isolation and characterization of anticancer principles from zanthoxylum alatum roxb.						
27.	02.45.09	25.11.16	Richa	Jugal Kishore Bhalla	Engineering	Electronics and Communication Engineering
Title of Thesis : Performance evaluation of high bit rate optical system with polarization mode dispersion.						
28.	1203039	19.12.16	Rajeev Kumar	Som Nath Sharma	Engineering	Computer Science and Engineering
Title of Thesis : Performance analysis of hybrid swarm intelligence techniques for hierarchical clustered based wireless sensor network.						

29.	1011002	20.12.16	Khanesh Kumar	Parkash Chander	Applied Sciences	Physics
Title of Thesis : Synthesis and characterization of semiconductor nanomaterials for photocatalytic and phosphor applications.						
30.	1010013	21.12.16	Sukhbir Singh	Kamal Singh	Pharmaceutica I Sciences	Pharmacy
Title of Thesis : Box-behnken designed nanospheres of centrally acting non-opioid analgesic drug: development and characterization.						
31.	1202001	21.12.16	Devender Sharma	Parma Nand Sharma	Engineering	Civil Engineering
Title of Thesis : Experimental investigations on utilization of waste foundry slag with alccofine in developing high strength concrete.						
32.	1310014	27.01.17	Sahil Kumar	Des Raj	Pharmaceutica I Sciences	Pharmacy
Title of Thesis : Synthesis and studies on polymer- linked combined antimalarial drugs to overcome the emergence of drug resistance for radical cure of malaria.						
33.	1203012	13.02.17	Rakesh Kumar	Kaka Ram	Engineering	Computer Science and Engineering
Title of Thesis : Development of an algorithm for disambiguating hindi postposition se (se): A case study of Hindi to Punjabi machine translation system.						
34.	1202005	14.02.17	Rishav Garg	Balmukand Garg	Engineering	Civil Engineering
Title of Thesis : Mechanical, durability and microstructural aspects of cement mortar incorporating micro and nano silica.						
35.	1005013	14.02.17	Vikrant Sharma	Ram Lubhaya	Engineering	Electronics and Communication Engineering
Title of Thesis : Performance optimization of multichannel, multigigabits/sec dwdm ring.						
36.	1014023	15.02.17	Rajan Manro	Ram Parkash Manro	Applied Sciences	Computer Applications
Title of Thesis : Analysis and design of cloud supported e-governance framework.						
37.	1105011	17.02.17	Darshan Singh	Gurdial Singh	Engineering	Electronics and Communication Engineering
Title of Thesis : Design of digital filters using hybrid optimization techniques.						
38.	1215001	21.02.17	Malika	Ashok Kumar Majhithia	Life Sciences	Biotechnology
Title of Thesis : Drafting of harmonized regulatory guidelines and validation of the same with a marketed probiotic formulation.						
39.	1210014	21.02.17	Harsimran Singh Bhalla	Sukhwant Singh Bhalla	Pharmaceutica I Sciences	Pharmacy
Title of Thesis : To study the pharmacological effects of different drugs on carbon tetrachloride and paracetamol induced hepatotoxicity in rats.						
40.	1210013	21.02.17	Jagdeep Kaur	Amritpal Singh	Pharmaceutica I Sciences	Pharmacy
Title of Thesis : Phytochemical and pharmacological evaluation of herbal drugs in l-arginine induced acute necrotizing pancreatitis in rats.						

41.	1112004	21.02.17	Sandeep Kaushal	Jagdish Chand	Applied Sciences	Chemistry
Title of Thesis : Synthesis, characterization and applications of zirconium based inorganic ion exchangers.						
42.	1211006	27.02.2017	Sudhir Mittal	Parvesh Mittal	Applied Sciences	Physics
Title of Thesis : Radioactive assessment of the environs of Rajasthan area, India.						
43.	1009059	06.03.2017	Ruchi Malhotra	Arun Kumar Malhotra	Business Administration	Management
Title of Thesis : A study of determinants of capital structure of listed companies in India.						
44.	1108001	10.03.17	Gurkirpal Singh Bhangoo	Manmohan Singh	Architecture	Architecture
Title of Thesis : Impact of office environment on employees' productivity.						
45.	1109115	14.03.17	Pooja Kansra	Darshan Kumar	Business Administration	Management
Title of Thesis : Health insurance for the urban informal sector in punjab: an empirical analysis.						
46.	1009049	17.03.17	Sudesh Kumar	Charanjit Om Parkash	Business Administration	Management
Title of Thesis : Financing decisions: a study of pharmaceutical industry in India.						
47.	1111002	27.03.17	Surbhi	Naresh Kumar Sharma	Applied Sciences	Physics
Title of Thesis : Optical, electrical and thermal characterization of amorphous ge-sn-se chalcogenide system.						
48.	1014026	28.03.17	Simrandeep Singh Thapar	L.D. Thapar	Applied Sciences	Computer Applications
Title of Thesis : Reusability based quality framework for software components.						
49.	1112019	06.04.17	Rashmi Sharma	Dwarka Dass	Applied Sciences	Chemistry
Title of Thesis : Synthesis and biological evaluation of some azaheterocycles.						
50.	1310008	17.04.17	Rupinder Kaur Gill	Sakatter Singh Gill	Pharmaceutical Sciences	Pharmacy
Title of Thesis : Design, synthesis and cytotoxic activity of some novel heterocyclic compounds.						
51.	1104002	17.04.17	Vikram Kumar	Sawan Dass	Engineering	Electrical Engineering
Title of Thesis : Multi-objective multi-area unit commitment problem of electric power system.						
52.	1109061	18.04.17	Anu Dhawan	Mulkh Raj Dhawan	Business Administration	Management
Title of Thesis : Financial performance of Central Cooperative Banks in Punjab-application of camels model.						
53.	1114004	28.04.17	Lovely Sharma	Roshan Lal	Applied Sciences	Computer Applications
Title of Thesis : Development of question –answer based dialogue system for Indian Railways in Hindi language.						

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54.	1114009	28.04.17	Manish Kumar	R.K. Bansal	Applied Sciences	Computer Applications
Title of Thesis : Development of lexical resources and algorithms for automatic translating of the study material of computer subjects for technical institutions using existing Hindi to Punjabi machine translation system.						
55.	1114010	28.04.17	Rajeev Puri	Ashok Kumar Puri	Applied Sciences	Computer Applications
Title of Thesis : Development of an automated software tool for plagiarism detection in Punjabi text documents						
56.	1114020	28.04.17	Harjeet Singh Arora	Joginder Singh	Applied Sciences	Computer Applications
Title of Thesis : Development of resources and approach for translating the standard Punjabi text into its Malwai dialect.						
57.	02.43.09	07.04.17	Umesh Gupta	Rakesh Gupta	Engineering	Electronics and Communication Engineering
Title of Thesis : Optimization of edfa and raman amplifiers for wdm systems.						
58.	11.63.08	05.05.17	Damanpreet Kaur	Charanjit Singh	Business Administration	Management
Title of Thesis : Mergers and acquisitions in Indian Banking Sector.						
59.	1014013	05.05.17	Jagmohan Mago	Harbans Lal Mago	Applied Sciences	Computer Applications
Title of Thesis : Fuzzy model to interpret and evaluate education system; teacher student perspective.						
60.	1014020	05.05.17	Munish Gupta	Krishan Kumar Gupta	Applied Sciences	Computer Applications
Title of Thesis : Development of cross layer energy efficient protocols for multi hop wireless sensor networks.						
61.	02.47.09	08.05.17	Raminder Singh Uppal	Avtar Singh Uppal	Engineering	Electronics and Communication Engineering
Title of Thesis : New deployment & dynamic shortest path routing in wireless sensor network.						
62.	1002001	08.05.17	GURDEEPAK SINGH	S.PRITAM SINGH	Engineering	Civil Engineering
Title of Thesis : Prediction of ultimate load carrying capacity of cast-in-situ concrete circular bored pile by artificial neural network model.						
63.	1311006	08.05.17	HARVINDER KAUR	Pritam Singh	Applied Sciences	Physics
The studies of ground state properties of nuclei at drip-lines and super-heavy mass regions of nuclear landscape						

Item No. 50.04: Amendment in Ph.D. Regulations-2016.

Council approved the proposed amendments in Ph.D. Regulations – 2016.

(Signature)
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Item No. 50.05: Academic Calendar Session 2017-18.

After detailed deliberations, it was decided that there should be two mid term examinations instead of three so that more working days shall be available for teaching. Out of two mid term examinations best shall be considered for internal assessment.

It was also decided that Academic Session shall start from 1st working day of July for existing students. The proposed modified Academic Calendar for Session 2017-18 shall be circulated to all the members before finalizing. It was also decided that even semester should start from 2nd working day of January.

Item No. 50.06: Amendment in M. Tech. Regulations.

The council approved the proposed amendments.

Item No. 50.07: Golden Chance.

Council allowed the golden chance to old students who could not complete their degree within stipulated period. It was further decided that the examination for this chance should be held in the University campus only.

It was further decided that a social study should be conducted regarding the detailed socio-academic economic reasons for students appearing in golden change. On the basis of the study the University should take remedial measures to ameliorate the situation.

Item No. 50.08: Ph.D. Course work 2016-17.

Dean (R & D) informed the council that the proposed Ph.D. course work has already been implemented from session 2016-17 with the approval of BOG.

Council noted the item.

Item No. 50.09: Change of Nomenclature of some UGC (Non-AICTE) courses.

Council accepted the proposed nomenclature for implementation.


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Item No. 50.10: To inform about Progressive Initiatives taken by IKGPTU regarding affiliated institutes.

Members appreciated the quality improvement initiatives of the University and it was decided that no new colleges will be opened to offer in UGC courses and no new course/ extension of seats in existing colleges (AICTE & UGC) shall be allowed for the academic session 2017-18.

Item No. 50.11: Start of B. Tech (Plastic Technology) course.

The proposal was deferred in line with decision taken in agenda item No. 50.10.

Item No. 50.12: Amendment in evaluation system for students in Autonomous Colleges.

The council approved the absolute grading system uniformly for all IKGPTU Main and other Campuses/autonomous and affiliated colleges.

Item No. 50.13 Research Journals for Ph.D. students enrolled in the faculty of Journalism and Mass Communication.

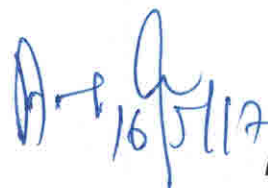
Item was approved.

Item No. 50.14 To approve the minutes of various Board of Studies.

Item was approved.

Item No. 50.15: Mandatory accreditation for UGC and AICTE institutes.

The matter was discussed in detailed. Chairman expressed his concern that there are lot of funds available with Government of India under research and development and other schemes but University and its affiliated colleges are getting only meager amount under these schemes due to non-accreditation of these institutes. Therefore, we should encourage our affiliated college to get accredited from NBA/NAAC.


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University will support the colleges for getting accreditation and will constitute a committee to facilitate the colleges in this venture.

The council directed that all the affiliated/constituent colleges should apply for accreditation in a time bound manner.

Item No. 50.16: Regarding Publications for Ph. D Degree.

Council noted the matter and approved the same.

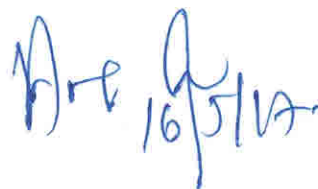
Item No. 50.17: Re-registration in Ph.D Programme.

Council approved the re-registration norms for Ph. D Program. It was decided that office of Dean (R&D) would examine the genuineness of all such cases before considering for re-registration. In such cases recommendations of the supervisor should be mandatory.

Item No. 50.18: Relevance of Ph.D in the program of Languages & Human Values.

The council deliberated on the issue in detail regarding running of Ph.D. and other Post Graduate academic programs in disciplines of Humanities like English, Punjabi and Human Values in the University, which was mainly set up by the Govt. to impart quality technical education to students.

Council felt that since this University is established to promote technical education so it was decided that university should focus on technical education and allied disciplines. However with a view to ascertain the need/status of Humanities programmes in the University started in the recent years, a committee consisting of (a) Dr. Ravi Kumar, Professor, NIT, Hamirpur (b) Dr. R. K. Gupta, Vice Chancellor, Maharaja Aggarsain University, Solan (c) Dr. Rajesh Bagga, Appejay IMT, Jalandhar should be constituted. The committee shall give recommendation to Vice Chancellor who is authorized to take final view in matter.


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Thereafter supplementary agenda was taken up :

Item No. S- 50.01: To approve the minutes of various Board of Studies.

Council approved the proposal.

Item No. S- 50.02: To change Academic Regulations for B. Pharmacy courses

Council approved the proposal.

Item No. S- 50.03: To change Eligibility Criteria for M. Pharmacy courses.

Council approved the proposal.

Item No. S- 50.04: Status of Anovus Institute of Clinical Research, Chandigarh

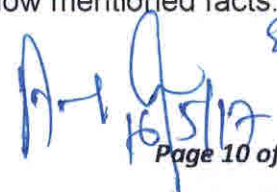
Anovus Institute of Clinical research was established as Regional Centre of IKGPTU by Hit Abhilashi Foundation Society through a MoU with IKGPTU.

It was informed that University has conducted the inspection of Anovus Institute of Clinical research, Chandigarh by the committee including member of Board of Studies (Clinical Research) and Board of Studies (Medical Lab Sciences).

The observations of the committee are as under:

- a) The institute is having inadequate space for accommodating 180 students per year intake as per sanction order of PTU.
- b) Library facilities inadequate (Books).
- c) No seminar hall available.
- d) No Tutorial Room available.
- e) Library & computer lab in a same room.
- f) No bills of licensed software, computer, furniture etc. made available to committee.

Council deliberated in detail on the below mentioned facts:


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1. The Anovus Institute is running from its transit campus situated within the territory of Chandigarh w.e.f session 2013-14. As per PTU Act, University can affiliate colleges/regional centers within the territory of Punjab except the districts in territorial jurisdiction of Maharaja Ranjit Singh Punjab Technical University, Bathinda.
2. As per observations of the committee, the institute does not have sufficient space and infrastructure to run quality programme.
3. As per the decision of BOG in its 64th meeting, the University has already closed all the Regional Centers of the University after the passing out of current batches of students.

After detailed deliberation it was decided that Anovus Institute of Clinical research, Chandigarh should be put under "**No Admission Zone**" from session 2017-18 onwards and the existing students shall continue till the completion of the course.

Item No.S- 50.05

Inspection report Performa.

The inspection report Performa was circulated in the meeting and has been approved by the council.

Meeting ended with a vote of thanks to the Chair.


Registrar

**ACTION TAKEN REPORT
ON
50th MEETING OF ACADEMIC COUNCIL HELD ON 13th May, 2017 AT 12:00 NOON AT
IKG-PTU MAIN CAMPUS**

A. STATUTORY AGENDA

Item No.	Agenda Item	Decision	Action
50.01	To confirm the proceedings of the meeting of 49 th Academic Council held on 27 th June, 2016.	The proceedings of meeting of 49 th Academic Council were confirmed as no comments have been received from any member of Academic Council	No actions called for.
50.02	Action Taken Report (ATR) of the 49 th Academic Council meeting held on 27 th June, 2016.	Council noted the decision taken and action taken against each decision. Action taken report was approved.	No actions called for.

B. INFORMATION AGENDA

50.03	Award of Ph.D.	The council recommended the candidates for award of Ph.D degree to BOG	No actions called for.
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C. AGENDA FOR DISCUSSION & RECOMMENDATIONS

50.04	Amendment in Ph.D. Regulations-2016.	Amendments in proposed Ph.D. Regulations -2016 was approved.	Decision Implemented
50.05	Academic Calendar for session 2017-18	The Academic Calendar was approved with following amendments "It was decided that there should be two mid –semester term examinations instead of three and out of two mid-semester term examinations best shall be considered."	Decision Implemented
50.06	Amendment in M. Tech. Regulations	Council approved the proposed amendments in M. Tech. regulations.	Decision Implemented
50.07	Golden Chance	Council allowed the golden chance to old students who could not complete their degree within stipulated period.	Decision Implemented
50.08	Ph.D. Course work 2016-17	Council noted the item as the matter has already been approved by the BOG.	No action required
50.09	Change of Nomenclature of some UGC (Non-AICTE) courses	Council approved the proposed nomenclature as per UGC norms.	Decision Implemented
50.10	To inform about Progressive Initiatives taken by IKGPTU regarding affiliated institutes.	It was decided that no new colleges will be opened to offer UGC courses and no new course/extension of seats in existing courses (AICTE & UGC) shall be allowed for the academic session 2017-18 except B. Pharmacy course.	Decision Implemented
50.11	Start of B. Tech (Plastic Technology) course and constitution of Board of Studies of Plastic Technology.	Item was deferred for session 2017-18.	Matter is being placed again as item No. 51.04 (I)

50.12	Amendment in evaluation system (Grading system) for students in Autonomous Colleges.	Council approved the implementation of absolute grading system uniformly for IKGPTU Main campus, constituted campuses, autonomous and affiliated colleges.	Decision Implemented
50.13	List of Research Journals for Ph.D. students enrolled in the faculty of Journalism and Mass Communication	Council approved the list of Journals for Ph.D. students enrolled in faculty of Journalism and Mass Communication.	Decision Implemented
50.14	To approve minutes of various Board of Studies for revision of syllabus.	Item was approved by the council	Decision Implemented
50.15	Mandatory accreditation for UGC and AICTE Institutes.	Council approved that University should support the affiliated colleges to prepare for getting accreditation of NAAC and NBA.	Awareness workshops were organized
50.16	Publications for award of Ph.D Degree (List of Journals for research publications required to award Degree)	Academic Council approved the list of Journals for research publication required for award of Ph.D degree.	Decision Implemented
50.17	Re-registration in Ph.D Programme	The council approved the norms for re-registration of students proposed by the RIC Deptt.	Decision Implemented
50.18	Relevance of Ph.D in the program of Languages & Human Values.	The council constituted a three member committee to give recommendations on the item. The committee shall give recommendations to Vice-Chancellor who was authorized to take final view in this matter.	The recommendations of the committee were approved by the Hon'ble Vice-Chancellor and Implemented.

Supplementary Agenda

S-50.01	To approve minutes of various Board of Studies for revision of syllabus.	Council approved the recommendations of the BOS for revision of syllabus of courses,	Decision Implemented
S-50.02	To change Academic Regulations for B. Pharmacy Courses.	The council discussed and approved the proposal.	Decision Implemented
S-50.03	To change Eligibility Criteria for M. Pharmacy Courses.	Item was discussed and approved by Council.	Decision Implemented
S-50.04	Status of Anovous Institutes of Clinical Research Chandigarh	Council deliberated and approved to put the Anovous Institute in No Admission Zone from session 2017-18 onwards and existing students shall continue till the completion of the course.	Decision Implemented
S-50.05	Inspection Report Proforma	Item was approved by the council.	Decision Implemented

LIST OF PH.D. SCHOLARS FOR THE APPROVAL OF ACADEMIC COUNCIL & BOG.

The following candidates have completed the necessary formalities for the award of Degree of Doctorate of Philosophy: -

Sr. No	Reg. No	Date of Viva-Voce	Name of Candidate	F. Name	Branch	Specialization	Title of Thesis
1	1310019	15/05/2017	Amit Chawla	Dhan Raj Chawla	Pharmaceutical Sciences	Pharmacy	SYNTHESIS, QSAR STUDY AND BIOLOGICAL EVALUATION OF SOME NOVEL THIAZOLE DERIVATIVES
2	1210018	15/05/2017	Ankur Bhardwaj	Rakesh Bhardwaj	Pharmaceutical Sciences	Pharmacy	DEVELOPMENT AND CHARACTERIZATION OF NANO CARRIERS USING COMBINATION THERAPY OF ISONIASID AND CIPROFLOXACIN HCL FOR PULMONARY TUBERCULOSIS
3	1311025	23/05/2017	Kulwinder Singh Mann	Mohinder Singh Mann	Applied Sciences	Physics	INVESTIGATION OF GAMMA-RAY SHIELDING BEHAVIOURS OF SOME LOW-Z ENGINEERING MATERIALS
4	1203043	30/05/2017	Palvinder Singh Mann	Mehar Singh Mann	Engineering	Computer Science and Engineering	IMPROVED METAHEURISTICS FOR ROUTING IN WIRELESS SENSOR NETWORKS
5	1406012	30/05/2017	Jasgurpreet Singh Chohan	Daljit Singh Chohan	Engineering	Mechanical Engineering	INVESTIGATING THE EFFECT OF PROCESS PARAMETERS OF FUSED DEPOSITION MODELLING AND VAPOUR SMOOTHING ON SURFACE PROPERTIES OF ABS REPLICAS FOR BIOMEDICAL APPLICATIONS
6	1206035	30/05/2017	Abhishek Jain	Hemchandra Jain	Engineering	Mechanical Engineering	EVALUATION OF TOTAL PRODUCTIVE MAINTENANCE STRATEGIES IN SMALL & MEDIUM ENTERPRISES OF INDIA FOR STRATEGIC SUCCESS
7	1209065	12/06/2017	Ruchika Jain	Bal Krishan Jain	Business Administration	Management	GROWTH & REGULATORY ISSUES OF EQUITY DERIVATIVE MARKET IN INDIA.
8	1112005	14/06/2017	Yogesh Kumar	Gurdass Ram	Applied Sciences	Chemistry	SYNTHESIS, BIOLOGICAL EVALUATION AND SYNTHETIC TRANSFORMATIONS OF LACTAMS
9	1014019	22/06/2017	Mohanjeet Singh	Jagmohan Singh	Applied Sciences	Computer Applications	PATH BASED OPTIMIZATION FOR STRUCTURED MULTIMEDIA P2P OVERLAY NETWORK
10	1113030	05/07/2017	Shiv Kumar	Chaman Lal	Applied Sciences	Mathematics	A STUDY ON FRAMES AND MATRIX OPERATORS
11	1113005	07/07/2017	Ashwani Kumar Bansal	Ved Parkash Bansal	Applied Sciences	Mathematics	STUDY OF SOME VISCO-ELASTIC FLOW PROBLEMS OF FLUID DYNAMICS AND MAGNETO FLUID DYNAMICS
12	1406116	13/07/2017	Jaspreet Singh	Parmjeet Singh	Engineering	Mechanical Engineering	SOME INVESTIGATIONS FOR BIOMEDICAL IMPLANT PREPARED BY COMBINING FUSED DEPOSITION MODELLING, CHEMICAL VAPOUR SMOOTHING, SILICON MOULDING & INVESTMENT CASTING
13	1309044	15/07/2017	Sukhwinder Kaur	Sudagar Singh	Business Administration	Management	SPIRITUAL QUOTIENT AND JOB SATISFACTION :A STUDY OF COMMERCIAL BANK EMPLOYEES IN PUNJAB
14	1203017	17/07/2017	Sankalp Arora	Raj Krishan Arora	Engineering	Computer Science and Engineering	STUDY AND INVESTIGATIONS ON BIO-INSPIRED OPTIMIZATION ALGORITHMS
15	1014015	24/07/2017	Kamal Malik	Ashwani Malik	Applied Sciences	Computer Applications	SCALABLE MODEL BASED CLUSTERING FOR HIGHER DIMENSIONAL OUTLIERS DETECTION AND ANALYSIS

Sr. No	Reg. No	Date of Viva-Voce	Name of Candidate	F. Name	Branch	Specialization	Title of Thesis
16	1314010	24/07/2017	Monika Pathak	Naginder Pathak	Applied Sciences	Computer Applications	SPECKLE NOISE SUPPRESSION TECHNIQUE TO IMPROVE DETECTION OF KIDNEY STONE IN ULTRASOUND IMAGES
17	1103024	26/07/2017	Sonia	Devinder Nath	Engineering	Computer Science And Engineering	NETWORK INFORMATION FLOW AND SECURE NETWORK CODING WITH IT'S APPLICATION TO ERROR CORRECTION
18	1311007	28/07/2017	Nancy	Parveen Kumar	Applied Sciences	Physics	NANOCRYSTALLINE PHASE OF OXYFLUORIDE GLASS AS SCINTILLATOR APPLICATION
19	04.15.09	10/08/2017	Manavjot Kaur	R. S. Hazuria	Applied Sciences	Chemistry	SYNTHESIS AND CHARACTERIZATION OF SOME SYMMETRICAL AND UNSYMMETRICAL FORMAZANS AND THEIR USE AS BIOLOGICAL AND ANALYTICAL REAGENTS
20	1009028	11/08/2017	Prateek Kalia	S.D. Kalia	Business Administration	Management	E-RETAILING- AN EMPIRICAL STUDY OF INTERNET USERS' ONLINE BUYING BEHAVIOUR IN NORTHERN INDIA.
21	1112014	18/08/2017	Harleen Kaur	Amritbir Singh	Applied Sciences	Chemistry	ROLE OF SURFACTANTS IN THE SYNTHESIS OF NANOPOROUS STRUCTURE OF ANODIZED ALUMINIUM
22	1005006	02/09/2017	Manisha	Sohan Lal	Engineering	Electronics & Communication Engineering	SIMULATIVE PERFORMANCE INVESTIGATIONS ON OCDMA SYSTEM BASED ON ADVANCED MODULATION AND CODING TECHNIQUES.
23	11.79.09	04/09/2017	Sukhbir Kaur	Baldev Singh Sandhu	Business Administration	Management	A STUDY OF CUSTOMER EXPECTATIONS FROM ORGANIZED RETAIL IN PUNJAB STATE.
24	1113001	18/09/2017	Neeraj	Nand Lal	Applied Sciences	Mathematics	A STUDY ON SOME FREE CONVECTIVE FLOW PROBLEMS OF MHD
25	1111004	18/09/2017	Arvind Kumar Shukla	Bal Krishan Sharma	Applied Sciences	Physics	DOSIMETRIC STUDY OF RADIATION ENERGY DEPOSITION MODELS USED IN RADIOTHERAPY
26	1014009	18/09/2017	Geeta Rani	Milakh Raj Arora	Applied Sciences	Computer Applications	DESIGN OF FAULT TOLERANCE STRATEGIES FOR BAG OF TASK APPLICATIONS ON DESKTOP GRID
27	1109009	29/09/2017	Raies Hamid	Abdul Hamid Sofi	Business Administration	Management	A STUDY OF EMOTIONAL INTELLIGENCE AND JOB SATISFACTION AMONG THE FACULTY MEMBERS OF HIGHER AND TECHNICAL EDUCATIONAL INSTITUTIONS OF KASHMIR VALLEY
28	1114016	03/10/2017	Baldev Singh	Joginder Singh	Applied Sciences	Computer Applications	INTRUSION DETECTION IN CLOUD ENVIRONMENT- A MULTIPLE THRESHOLD ALGORITHMIC APPROACH
29	08.09.06	03/10/2017	Parul Tyagi	Ashok Kumar Tyagi	Applied Sciences	Physics	SYNTHESIS AND CHARACTERIZATION OF NOVEL TITANATE ELECTROCEAMIC MATERIAL FOR DIELECTRIC RESONATOR
30	1009053	06/10/2017	Savdeep Vasudeva	Suraj Kant Vasudeva	Business Administration	Management	CUSTOMER PERCEPTION TOWARDS MOBILE BANKING IN PUNJAB-A STUDY OF PERSONAL BANKING
31	1309181	06/10/2017	Anil Kumar Kalotra	Chandan Singh	Business Administration	Management	CONSUMER BEHAVIOUR TOWARDS HOSPITALITY SERVICES: A STUDY OF DELHI
32	1410043	06/10/2017	Sumit Jamwal	Suresh Jamwal	Pharmaceutical Sciences	Pharmacy	NEUROPROTECTIVE MECHANISM OF SPERMIDINE AND L-THEANINE IN EXPERIMENTAL MODELS OF HUNTINGTON'S DISEASE

Sr. No	Reg. No	Date of Viva-Voce	Name of Candidate	F. Name	Branch	Specialization	Title of Thesis
33	1310041	06/10/2017	Gaurav Chauhan	Gurmit Singh Chauhan	Pharmaceutical Sciences	Pharmacy	DEVELOPMENT OF METAL NANOPARTICLES BASED HYBRID SYSTEMS FOR THERAPEUTIC APPLICATIONS
34	1309030	09/10/2017	Gagandeep Kaur	Pirithi Pal Singh	Business Administration	Management	MANAGEMENT OF TELEMEDICINE SERVICES IN PUNJAB: A STUDY OF GOVERNMENT E-INITIATIVES.
35	1110014	10/10/2017	Neelam	Jagdish	Pharmaceutical Sciences	Pharmacy	CENTRAL COMPOSITE DESIGNED BIODEGRADABLE MICROSPHERES LOADED WITH NEFOPAM HYDROCHLORIDE: DEVELOPMENT AND CHARACTERIZATION
36	1203050	13/10/2017	Gurbinder Singh Brar	Shinder Singh	Engineering	Computer Science and Engineering	ENERGY EFFICIENT PROACTIVE AND REACTIVE PROTOCOL FOR WIRELESS SENSOR NETWORKS
37	1114008	23/10/2017	Sachin Gupta	Sharwan Kumar Gupta	Applied Sciences	Computer Applications	DESIGN & PERFORMANCE EVALUATION OF VULNERABILITY CONTROL SYSTEM FOR CLOUD BASED NETWORK
38	1010021	25/10/2017	Ashwani Kumar	Raghibir Singh	Pharmaceutical Sciences	Pharmacy	SYNTHESIS OF SOME NOVEL N-HETEROCYCLIC ANALOGS AS POTENT ANTI-INFLAMMATORY AGENTS
39	1113002	30/10/2017	Anju Sood	Kapil Dev Sood	Applied Sciences	Mathematics	LYAPUNOV APPROACH FOR STABILITY OF IMPULSIVELY PERTURBING DYNAMICAL SYSTEMS
40	1303040	02/11/2017	Arvind Kumar Selwal	Capt. Sumer Singh	Engineering	Computer Science and Engineering	ENHANCING TEMPLATE DATABASE SECURITY AND PERFORMANCE IN A MULTIMODAL BIOMETRIC SYSTEM
41	1315010	06/11/2017	Richa Arora	Harish Arora	Life Sciences	Biotechnology	BIOPROCESSING OF PADDY STRAW FOR ETHANOL PRODUCTION USING THERMOTOLERANT MICROORGANISMS
42	1003004	10/11/2017	Jayoti Arora	Milakh Raj	Engineering	Computer Science and Engineering	INVESTIGATIONS ON SCHEDULING STRATEGIES FOR BAG OF TASK APPLICATIONS ON DESKTOP GRID
43	1006022	13/11/2017	Adarsh Kumar	Parmeshri Dass	Engineering	Mechanical Engineering	INVESTIGATION OF EROSION MECHANISMS FOR SOME BOILER TUBE MATERIALS
44	1104012	17/11/2017	Tejinder Singh	Balwinder Singh	Engineering	Electrical Engineering	POWER QUALITY IMPROVEMENT BY HARMONIC REDUCTION WITH SPECIAL REFERENCE TO INDUCTION FURNACES
45	1103016	20/11/2017	Nirmal Kaur	Jeet Singh	Engineering	Computer Science and Engineering	ENERGY EFFICIENT SCHEDULING TECHNIQUES FOR DISTRIBUTED COMPUTING SYSTEMS
46	1109078	24/11/2017	Sukhpreet Kaur	Udeshan Singh Bedi	Business Administration	Management	A STUDY ON CSR PRACTICES IN INDIAN BANKING SECTOR- WITH SPECIAL REFERENCE TO PUNJAB.
47	1209127	27/11/2017	Sukhmeet Kaur	Joginder Singh	Business Administration	Management	AN EMPIRICAL STUDY OF IMPULSE BUYING BEHAVIOUR OF ONLINE AND OFFLINE CONSUMERS IN INDIA. (A STUDY OF CONSUMERS IN PUNJAB, HARYANA, NEW DELHI AND CHANDIGARH)
48	1005016	27/11/2017	Amandeep Khokher	Kartar Singh	Engineering	Electronics & Communication Engineering	CONTENT-BASED IMAGE RETRIEVAL SYSTEM BASED ON COLOR AND TEXTURE FEATURES
49	1405001	27/11/2017	Kulwinder Singh	Avtar Singh Monga	Engineering	Electronics & Communication Engineering	PERFORMANCE ENHANCEMENT OF HYBRID ROF-OFDM SYSTEM
50	1006012	28/11/2017	Rajesh Sharma	N. D. Sharma	Engineering	Mechanical Engineering	THREE DIMENSIONAL TRANSIENT THERMAL ANALYSIS OF FUNCTIONALLY GRADED PLATE BY FINITE ELEMENT METHOD

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51	1109057	28/11/2017	Payel Mehta	Jiwan Mehta	Business Administration	Management	AWARENESS AND UTILISATION OF CONSUMER RIGHTS AN EMPIRICAL STUDY IN RURAL AND URBAN PUNJAB
52	1103010	06/12/2017	Gulshan	Harikesh Goyal	Engineering	Computer Science and Engineering	ALGORITHM DESIGN FOR OFFLINE HANDWRITTEN DEVNAGRI NUMERALS USING NEURAL NETWORK
53	1014022	15/12/2017	Nitin Jain	Surinder Kumar Jain	Applied Sciences	Computer Applications	SECURITY ANALYSIS OF UBIQUITOUS COMPUTING FOR EFFICIENT AUTHENTICATION
54	1321001	18/12/2017	Seema Bansal	Mahabir Prasad Bansal	Language	English	THE DISCOURSE OF TRANSGRESSION; A COMPARATIVE STUDY OF THE SELECTED NOVELS OF ANITA NAIR, MANJU KAPUR AND TANUJA DESAI HIDIER.
55	1403027	18/12/2017	Manisha Kaushal	Devinder Kaushal	Engineering	Computer Science and Engineering	ON THE SOFT COMPUTING BASED APPROACHES FOR OBJECT DETECTION AND TRACKING IN VIDEOS.
56	1314003	21/12/2017	Shalli Rani	Prem Kumar	Applied Sciences	Computer Applications	DESIGN AND DEVELOPMENT OF QOS AWARE CROSS LAYER WIRELESS SENSOR NETWORK
57	1109030	21/12/2017	Sanjeet Kaur	Ranjeet Singh	Business Administration	Management	A STUDY OF INDIAN BOND MARKET-WITH SPECIAL REFERENCE TO CORPORATE BOND RATINGS.
58	1409049	22/12/2017	Pooja Lekhi	Anoop Kumar	Business Administration	Management	ASSET QUALITY MANAGEMENT PRACTICES IN BANKING SECTOR, A COMPARATIVE STUDY OF PUBLIC SECTOR AND PRIVATE SECTOR BANKS IN INDIA
59	1113024	22/12/2017	Sunil Kumar Sachdeva	Charanjit Lal	Applied Sciences	Mathematics	PROBLEMS ON MICROPOLAR THERMOELASTICITY
60	1213017	26/12/2017	Gaurav Verma	Rakesh Verma	Applied Sciences	Mathematics	SOME SOLUTIONS BASED ON ELASTIC, PLASTIC AND CREEP TRANSITION IN HOMOGENEOUS AND NON-HOMOGENEOUS SHELLS.
61	1010009	26/12/2017	Rahul Taneja	Bhim Sain Taneja	Pharmaceutica l Sciences	Pharmacy	FORMULATION AND OPTIMIZATION OF PULSATILE DRUG DELIVERY SYSTEM FOR ANTI-HYPERTENSIVE DRUGS
62	1210005	26/12/2017	Gurjeet Singh	Harkishan Singh	Pharmaceutica l Sciences	Pharmacy	ENHANCEMENT OF BIOAVAILABILITY OF POORLY WATER SOLUBLE DRUGS AND OPTIMIZATION
63	1010015	03/01/2018	Sukhbir Kaur	Gurbaksh Singh	Pharmaceutica l Sciences	Pharmacy	PREPRATION AND EVALUATION OF NOVEL TARGETED DRUG DELIVERY OF METRONIDAZOLE TO THE COLON
64	1112006	11/01/2018	Amita Rani	Jagdish Lal	Applied Sciences	Chemistry	INVESTIGATING THE CHEMISTRY OF SOME CERAMIC COATINGS SUBJECTED TO HIGH TEMPERATURE CORROSION
65	1303039	16/01/2018	Rupinder Singh	Karnail Singh	Engineering	Computer Science and Engineering	DEVELOPMENT OF A NOVEL TECHNIQUE FOR INTRUSION DETECTION IN WIRELESS SENSOR NETWORKS
66	11.73.09	17/01/2018	Pooja Sharma	Tarsem Lal Sharma	Business Administration	Management	PRIVATIZATION OF GENERAL INSURANCE: A STUDY ON SERVICE QUALITY IN PUNJAB
67	1103027	22/01/2018	Tejpreet Singh	Joginder Singh	Engineering	Computer Science and Engineering	ENERGY EFFICIENT SECURED ROUTING PROTOCOL FOR MOBILE AD HOC NETWORKS

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68	1109058	22/01/2018	Priya	S.Rajinder Singh	Business Administration	Management	CONSUMER ATTITUDE AND BUYING BEHAVIOR TOWARDS GREEN PACKAGED FOOD PRODUCTS IN PUNJAB
69	1209089	25/01/2018	Udeybir Singh	Jaspal Singh Waraich	Business Administration	Management	CAMEL ANALYSIS OF BANKS IN INDIA: A COMPARATIVE STUDY OF PUBLIC AND PRIVATE SECTOR BANKS
70	1105021	25/01/2018	Anmol Kumar	Rajinder Mohan	Engineering	Electronics & Communication Engineering	PERFORMANCE IMPROVEMENT IN MULTUSER DETECTION BASED MULTI-CARRIER CDMA SYSTEMS.
71	1205030	29/01/2018	Harjeet Kaur	S. Karnail Singh	Engineering	Electronics & Communication Engineering	PERFORMANCE ANALYSIS OF VARIOUS ALGORITHMS FOR SPEECH ENHANCEMENT
72	1005009	29/01/2018	Parveen Bajaj	Madan Lal	Engineering	Electronics & Communication Engineering	OPTIMIZATION OF FBG BASED OADM USING ANN FOR DWDM APPLICATIONS
73	1115019	30/01/2018	Ram Baran Singh	Hem Singh	Life Sciences	Biotechnology	IDENTIFICATION, CHARACTERIZATION AND APPLICATION OF EST-SSRS MARKERS IN SUGERCANE (SACCHARUM SPP. L)
74	1204005	01/02/2018	Gagandeep Kaur	Gobinder Singh	Engineering	Electrical Engineering	A NOVEL APPROACH TO PLAN FOR BIOMASS BASED DISTRIBUTED GENERATION
75	11.89.09	23/02/2018	Deepinder Singh	Jangir Singh	Business Administration	Management	RETAIL MARKETING STRATEGIES IN THE RURAL SECTOR OF PUNJAB
76	1009007	23/02/2018	Deepak Sood	Arun Kumar Sood	Business Administration	Management	A STUDY OF INVESTMENT SELECTION BEHAVIOUR OF INDIVIDUAL INVESTORS REGARDING VARIOUS INVESTMENT SCHEMES
77	1306016	28/02/2018	Jatinder Gill	Joga Singh Gill	Engineering	Mechanical Engineering	PERFORMANCE ANALYSIS USING OPTIMIZED BLEND OF R134A/LPG AS A REPLACEMENT OF R134A IN A VCRES
78	14.45.09	09/03/2018	Harpreet Singh Soch	Dr. Harbhajan Singh Soch	Engineering	Computer Science and Engineering	VALIDATION OF COMPUTER ANXIETY RATING SCALE FOR STUDENTS AND TEACHERS OF TECHNICAL EDUCATION IN INDIA.
79	1009042	09/03/2018	Ruchika Soni	Mukesh Soni	Business Administration	Management	PERFORMANCE AND PROSPECTS OF URBAN COOPERATIVE BANKS IN PUNJAB, HARYANA AND HIMACHAL PRADESH.
80	1113017	12/03/2018	Ajay Kumar	Prem Vijay	Applied Sciences	Mathematics	STUDIES ON MULTIPLE ERROR CORRECTING BCH CODE AND GOPPA CODE WITH ITS APPLICATIONS
81	1206033	16/03/2018	Raman Kumar	Vijay Kumar	Engineering	Mechanical Engineering	STRATEGIC PLANNING OF MANUFACTURING TOOLS FOR ENHANCING PERFORMANCE INDEX OF MANUFACTURING SYSTEM.
82	1409023	16/03/2018	Lipika Bhardwaj	Subhash Chander Bhardwaj	Business Administration	Management	CSR PRACTICES: A STUDY OF SELECT PUBLIC AND PRIVATE SECTOR BANKS IN PUNJAB, HARYANA AND CHANDIGARH.
83	1309048	19/03/2018	Yukti Ahuja	Ashok Ahuja	Business Administration	Management	DIMENSIONS INFLUENCING THE TWEENAGERS' PURCHASE INTENTION AND THEIR INFLUENCE IN PURCHASE DECISION MAKING.
84	1202003	19/03/2018	Bharat Bhushan Jindal	Rajinder Krishan Kumar	Engineering	Civil Engineering	PERMEABILITY & STRENGTH CHARACTERISTICS OF GEOPOLYMER CONCRETE.
85	1510007	21/03/2018	Nirlep Kaur	Nirmal Singh	Pharmaceutical Sciences	Pharmacy	DESIGN AND EVALUATION OF TRANSDERMAL FORMULATION CONTAINING VESICULAR CARRIERS.

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86	1011007	23/03/2018	Baljinder Kaur	Satnam Singh	Applied Sciences	Physics	STUDY OF MULTIFERROIC PROPERTIES OF BISMUTH BASED METAL OXIDE NANOSTRUCTURED MATERIALS.
87	1109027	03/04/2018	Sonu Dua	Davinder Singh Dua	Business Administration	Management	RELATIONSHIP OF CUSTOMER BASED BRAND EQUITY WITH EXTENDED SERVICE MARKETING MIX(3P'S): AN EMPIRICAL STUDY OF PRIVATE BANKING SECTOR IN PUNJAB & CHANDIGARH.
88	1311028	03/04/2018	Shivani Vij	Madhu Sudan Vij	Applied Sciences	Physics	THEORETICAL INVESTIGATIONS ON NON LINEAR INTERACTION OF HIGH POWER LASERS WITH CLUSTERS AND PLASMAS.
89	1210003	06/04/2018	Permender Rathee	Ram Kishan Rathee	Pharmaceutical Sciences	Pharmacy	BIOAVAILABILITY ENHANCEMENT OF NISOLDIPINE USING BIODEGRADABLE NANO-CARRIERS.
90	1406010	06/04/2018	Preetkanwal Singh	Piara Singh	Engineering	Mechanical Engineering	ANALYSIS OF SURFACE PROPERTIES OF ALUMINUM BASED METAL MATRIX COMPOSITE AFTER ELECTRIC DISCHARGE MACHINING.
91	1103022	06/04/2018	Sheetal Jethi	Virender Kumar Jethi	Engineering	Computer Science and Engineering	EXPLORING GROUND WATER POSSIBILITY IN CASE BASED RECOMMENDATION SYSTEM USING NATURE INSPIRED TECHNIQUES.
92	1213024	12/04/2018	Suresh Kumar	Rup Lal	Applied Sciences	Mathematics	ANALYTICAL STUDIES OF THERMAL STRESSES IN AN ISOTROPIC DISC.
93	1210036	16/04/2018	Sushila	Karan Singh	Pharmaceutical Sciences	Pharmacy	FORMULATION DEVELOPMENT & EVALUATION OF POLYHERBAL PHYTOSOMES OF SELECTED TRADITIONAL ANTIDIABETIC PLANTS.
94	1309092	16/04/2018	Robin Inderpal Singh	Parminder Singh	Business Administration	Management	IMPACT OF FOREIGN DIRECT INVESTMENT INFLOWS ON BRICS ECONOMIES.
95	1206027	17/04/2018	Dinesh Kumar	Late Sh. Sardari Lal	Engineering	Mechanical Engineering	MACHINING PERFORMANCE EVALUATION OF M2 TOOL STEEL USING DIFFERENT ELECTRODES.
96	1303065	18/04/2018	Amar Singh	Raj Singh	Engineering	Computer Science and Engineering	SOME NEW NATURE INSPIRED COMPUTING APPROACHES TO ROUTING IN WIRELESS MESH NETWORKS.
97	1105006	19/04/2018	Satbir Singh	S. Balbir Singh	Engineering	Electronics & Communication Engineering	SYNTHESIS, CHARACTERIZATION AND OPTOELECTRONIC STUDIES OF POLYMER DIRECTED ZINC OXIDE (ZNO) NANOPARTICLES.
98	1006015	23/04/2018	Rakesh Kumar	Mukand Lal	Engineering	Mechanical Engineering	A NUMERICAL AND EXPERIMENTAL ANALYSIS OF RESIDUAL STRESSES IN BUTT WELDING OF FLAT PLATES.
99	1315005	23/04/2018	Nisha Singh	Madan Mohan Singh	Life Sciences	Biotechnology	DEVELOPMENT AND APPLICATIONS OF GENOME WIDE HIGH DENSITY SNP GENOTYPING ASSAYS FOR THE CHARACTERIZATION OF INDIAN WILD RICE GERMPLASM.
100	1203029	25/04/2018	Parneet Kaur	Paramjeet Singh	Engineering	Computer Science and Engineering	DEVELOPING AN AGGREGATE RANKING MEASURE FOR PERFORMANCE IMPROVEMENT OF META SEARCH.
101	1005008	26/04/2018	Narwant Singh Grewal	S. Dalvir Singh	Engineering	Electronics & Communication Engineering	ANTENNA ARRAY FAILURE CORRECTION USING OPTIMIZATION TECHNIQUES.

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102	1314026	30/04/2018	Opinder Singh	Avtar Singh	Applied Sciences	Computer Applications	ANALYSIS AND DESIGN OF A NOVEL FRAMEWORK FOR MOBILE AD-HOC NETWORK.
103	1014014	30/04/2018	Jaspreet Singh Randhawa	Lachhman Singh	Applied Sciences	Computer Applications	ROLE OF MANUFACTURING INFORMATICS IN SMART MANUFACTURING.
104	1309099	07/05/2018	Robin Malik	Umed Malik	Business Administration	Management	EFFECTIVENESS OF GOVERNMENT CIVIL PENSION SYSTEM IN DISTRICT PANCHKULA (HARYANA STATE).
105	1006013	09/05/2018	Rakesh Goyal	Raj Kumar	Engineering	Mechanical Engineering	STUDY OF HOT CORROSION BEHAVIOUR OF THERMAL SPRAYED CNT REINFORCED AL2O3 COATINGS ON BOILER STEELS.
106	1105001	09/05/2018	Vikram Mutneja	Ashok Kumar Mutneja	Engineering	Electronics & Communication Engineering	INVESTIGATION IN DETECTION, QUALITY ANALYSIS & ENHANCEMENT OF HUMAN FACIAL IMAGES FROM LOW RESOLUTION SURVEILLANCE VIDEO.
107	1305018	10/05/2018	Raju Sharma	Parma Nand	Engineering	Electronics & Communication Engineering	EFFICIENT ROUTING PROTOCOL IN WIRELESS BODY AREA NETWORKS.
108	11.85.09	11/05/2018	Deepika	Mohan Soni	Business Administration	Management	PROFITABILITY MANAGEMENT IN INDIAN BANKING SECTOR.
109	11.91.09	14/05/2018	Harmohan Singh Dhall	Manmohan Singh Dhall	Business Administration	Management	STUDY ON THE IPO PRICING EFFICIENCY IN INDIA.
110	1114035	17/05/2018	Sanjay Sareen	Yash Pal Sareen	Applied Sciences	Computer Applications	FRAGMENTATION AND SECRET SHARING BASED SECURE AND CONFIDENTIAL DATA ACCESS CONTROL IN CLOUD COMPUTING.
111	1003012	21/05/2018	Sunny Behal	Rakesh Behal	Engineering	Computer Science and Engineering	DEFENSE OF INTERNET FROM DDOS ATTACKS: A REAL - TIME EXPERIMENTATION.
112	1209118	23/05/2018	Sanjeet Singh	Mahendra Singh	Business Administration	Management	UNDERSTANDING BUSINESS AS A BRIDGE BETWEEN PRODUCTION AND DISTRIBUTION.
113	1110009	25/05/2018	Divneet Kaur	Davinder Singh Chopra	Pharmaceutical Sciences	Pharmacy	EVALUATION OF ANXIOLYTIC POTENTIAL OF A FEW COMMON PLANTS CONTAINING FLAVONOIDS.
114	1306013	25/05/2018	Rajeev Kumar	Krishan Lal	Engineering	Mechanical Engineering	SLURRY EROSION PERFORMANCE OF NI-AL2O3-TiO2 BASED THERMAL SPRAYED COATINGS.
115	1409009	25/05/2018	Owais Ahmed	Gulam Ahmad Dar	Business Administration	Management	LEADER MEMBER EXCHANGE AND ITS IMPACT ON EMPLOYEE PERFORMANCE IN SERVICE ORGANIZATIONS.
116	1314016	28/05/2018	Sharanpreet Kaur	Pavitar Singh	Applied Sciences	Computer Applications	ON THE DEVELOPMENT OF PREDICTION MODEL TO ANALYZE THE IMPACT OF CODE SMELLS ON SOFTWARE MAINTENANCE.
117	11.93.09	29/05/2018	Jaspinder Kaur	Tarlochan Singh	Business Administration	Management	CAPITAL STRUCTURE PRACTICES IN INDIA: A STUDY OF MANUFACTURING VIS-A-VIS SERVICE INDUSTRIES.
118	1206039	30/05/2018	Amardeep Singh	Sukhdev Singh	Engineering	Mechanical Engineering	CHARACTERIZATION AND TESTING OF PLASMA-SPRAYED REINFORCED HYDROXYAPATITE COATINGS FOR BIO-MEDICAL APPLICATIONS
119	1009008	30/05/2018	Deepti	Rajinder Mohan	Business Administration	Management	A STUDY ON CONSUMER BEHAVIOUR TOWARDS PUBLIC AND PRIVATE SECTOR BANKS - A COMPARATIVE STUDY.
120	1106011	01/06/2018	Partap Singh Samra	S. Darshan Singh	Engineering	Mechanical Engineering	FINE FINISHING OF ROUND SURFACES WITH MAGNETO-HYDRODYNAMIC FORCES.

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121	1102003	04/06/2018	Inderpreet Kaur	Gurjant Singh Punia	Engineering	Civil Engineering	DEVELOPMENT OF RECTANGULAR HYBRID STIFFENED-PLATE STRUCTURAL SYSTEM.
122	1111005	04/06/2018	Deepak Basandrai	Vijay Kumar	Applied Sciences	Physics	STUDIES ON THERMAL AND NON-THERMAL EFFECTS OF CELL PHONE RADIATION ON HUMAN TISSUES.
123	1314044	04/06/2018	Anshul Kalia	Akash Kalia	Applied Sciences	Computer Applications	A METRICS BASED FRAMEWORK TO IMPROVE THE REUSABILITY IN COMPONENT BASED SOFTWARE SYSTEMS.
124	1103019	07/06/2018	Rakesh Gupta	Vinod Gupta	Engineering	Computer Science and Engineering	DESIGN OF TEST SELECTION AND PRIORITIZATION SYSTEM FOR MOBILE APPLICATION ENVIRONMENT.
125	1205036	07/06/2018	Sartajvir Singh	Parmjit Singh	Engineering	Electronics & Communication Engineering	DEVELOPMENT OF CHANGE VECTOR ANALYSIS ALGORITHM BASED CHANGE DETECTION TECHNIQUE USING MODIS SENSOR SATELLITE IMAGERY.
126	1106012	12/06/2018	Rachin Goyal	Balwant Rai Goyal	Engineering	Mechanical Engineering	STUDIES ON THE PERFORMANCE OF ELECTRIC DISCHARGE MACHINING (EDM) PROCESS UNDER CRYOGENIC CONDITIONS.
127	1206017	19/06/2018	Amandeep Singh	Santokh Singh	Engineering	Mechanical Engineering	DEVELOPMENT AND CHARACTERIZATION OF STIR CAST MAGNESIUM METAL MATRIX COMPOSITES.
128	1202004	22/06/2018	Balwinder Lallotra	Om Parkash Lallotra	Engineering	Civil Engineering	A STUDY OF DESIGN AND ANALYSIS OF RCC STRUCTURES USING DIFFERENT SOFTWARE WITH EMPHASIS ON SPECIAL CONCRETES.
129	1209114	22/06/2018	Arora Gaurav Singh	Arora Gurdarshan Singh	Business Administration	Management	INFLUENCE OF COUNTRY - OF - ORIGIN ON CONSUMER BUYING BEHAVIOR: A STUDY OF ELECTRONIC PRODUCTS.
130	1209013	02/07/2018	Navjit Singh	Parminder Singh	Business Administration	Management	CUSTOMER PERCEPTION TOWARDS ELECTRONIC SERVICE QUALITY OF INTERNET BANKING: A STUDY OF URBAN PUNJAB.
131	1406028	06/07/2018	Munish Mehta	Budhwant Lal Mehta	Engineering	Mechanical Engineering	RELIABILITY ANALYSIS AND PERFORMANCE EVALUATION OF VARIOUS COMPLEX SYSTEMS.
132	1207002	09/07/2018	Deshdeepak	Rishikesh	Engineering	Textile Engineering	SOME STUDIES ON EFFECT OF PROCESS PARAMETERS ON THE PROPERTIES OF 100% VISCOSE MVS YARNS AND THEIR FABRICS.
133	1106015	10/07/2018	Rajesh Kumar Saluja	Narain Dass Saluja	Engineering	Mechanical Engineering	STABILITY, PERFORMANCE AND EMISSIONS STUDY OF BIODIESEL.
134	1509033	11/07/2018	Karun Kant Uppal	Kamal Kant Uppal	Business Administration	Management	CUSTOMER PERCEPTION TOWARDS BRANDED GOODS WITH SPECIAL .REFERENCE TO END OF SEASON SALE.
135	1006004	12/07/2018	Gazal Preet Arneja	Jagmohan Singh	Engineering	Mechanical Engineering	FACILITY LAYOUT RECONFIGURATION PLANNING WITH RECONFIGURABLE MACHINE TOOLS.
136	1309051	12/07/2018	Shamily Jaggi	Joginder Singh	Business Administration	Management	CONSUMER BUYING BEHAVIOUR FOR GEMS & JEWELLERY: IMPACT OF ADVERTISEMENTS
137	1109062	13/07/2018	Gagandeep Kaur	Harbhajan Singh	Business Administration	Management	INTERNET USAGE AND ITS IMPACT UPON RESEARCH STUDENTS: A CASE STUDY OF PUNJAB AGRICULTURAL UNIVERSITY, LUDHIANA.

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138	1109069	13/07/2018	Charu Saxena	Vinod Kumar Saxena	Business Administration	Management	IMPLEMENTATION AND EFFECTIVENESS OF CUSTOMER GRIEVANCE REDRESSAL SYSTEM IN BANKS IN INDIA: A STUDY OF BANKS OF PUNJAB.
139	1106002	13/07/2018	Vineet Shibe	Madan Lal Shibe	Engineering	Mechanical Engineering	COMBATING EROSION WEAR OF INDUCED DRAFT FANS IN COAL FIRED POWER PLANTS WITH SOME SURFACE MODIFICATION TECHNIQUES.
140	1206032	13/07/2018	Rajendra Kumar	Jagdish Prasad	Engineering	Mechanical Engineering	FABRICATION AND CHARACTERIZATION OF NATURAL FIBER HYBRID POLYMERIC COMPOSITE (NFHPMC).
141	1410044	16/07/2018	Shamsher Singh	Gulzar Singh	Pharmaceutical Sciences	Pharmacy	NEUROPROTECTIVE MECHANISM OF ANTIOXIDANTS IN EXPERIMENTAL MODELS OF PARKINSON'S DISEASE: POSSIBLE NEUROCHEMICAL MODULATION.
142	1110015	23/07/2018	Richa Gupta	Satya Narayan Gupta	Pharmaceutical Sciences	Pharmacy	PHARMACOGNOSTIC, PHYTOCHEMICAL AND BIOLOGICAL EVALUATION OF CORDIA OBLIQUA WILLD. LEAF
143	1312001	23/07/2018	Bilash Kuila	Ranjit Kuila	Applied Sciences	Chemistry	SYNTHESIS OF CARBO / HETEROCYCLES VIA MULTI-COMPONENT CYCLOADDITION REACTIONS.
144	1010001	26/07/2018	Baljinder Singh	Shivdev Singh	Pharmaceutical Sciences	Pharmacy	ISOLATION AND CHARACTERIZATION OF ANTI-INFLAMMATORY PRINCIPLES FROM SESBANIA SESBAN(L) MERR.
145	1010003	26/07/2018	Bhawna Chopra	Ravi Kumar Chopra	Pharmaceutical Sciences	Pharmacy	SYNTHESIS & PHARMACOLOGICAL EVALUATION OF NOVEL HETEROCYCLIC MOLECULES FROM THE SUBSTITUTED SCHIFF BASES AND OTHER ANALOGUES.
146	1003011	27/07/2018	Sumeet Kaur Sehra	Kuldip Singh	Engineering	Computer Science and Engineering	AN APPROACH BASED ON MULTI CRITERIA DECISION MAKING FOR SOFTWARE EFFORT ESTIMATION.
147	1110021	30/07/2018	Deepti	Manohar Lal Ahuja	Pharmaceutical Sciences	Pharmacy	EVALUATION OF HEPATOPROTECTIVE ACTIVITY OF AEGLE MARMELLOS AND Silybum marianum IN COMBINATION WITH A NATURAL BIOENHANCER IN RATS.
148	1309132	30/07/2018	Kuljit Kaur	Baldev Singh	Business Administration	Management	EXAMINING THE CONSEQUENCES OF IMAGE CONGRUENCE IN MALL SHOPPING BEHAVIOR.
149	1109102	30/07/2018	Rajni Bala	Baldev Raj	Business Administration	Management	WORKING CAPITAL MANAGEMENT OF STEEL INDUSTRY IN INDIA.
150	1209115	02/05/2018	Ajay Kumar Pathania	Ramesh Singh Pathania	Business Administration	Management	A STUDY OF DIFFUSION, AWARENESS, AND ADOPTION OF SOLAR ENERGY IN HOUSEHOLD SECTOR OF PUNJAB.
151	1409069	13/07/2018	Herpreet Alok K Kaur	Narendrasingh	Business Administration	Management	IMPACT OF SELECTED MACROECONOMIC VARIABLES ON INDIAN STOCK MARKET INDEX-NIFTY.
152	1311024	01/08/2018	Meenakshi	Kapil Dev Malhotra	Applied Sciences	Physics	IMPROVING ENERGETICS OF SOLID STATE HYDROGEN STORAGE USING CARBON NANOSTRUCTURES USING FIRST PRINCIPLE CALCULATIONS.
153	1212006	10/08/2018	Lalita Devi	Badri Dutt	Applied Sciences	Chemistry	SYNTHESIS AND CHARACTERIZATION OF CHITOSAN BASED GRAFT COPOLYMERS FOR METAL ION SORPTION AND DRUG DELIVERY APPLICATIONS.

Sr. No	Reg. No	Date of Viva-Voce	Name of Candidate	F. Name	Branch	Specialization	Title of Thesis
154	1113027	10/08/2018	Nidhi Joshi	Kulbhushan Joshi	Applied Sciences	Mathematics	OPTIMIZATION OF SOME TRANSPORTATION PROBLEMS UNDER FUZZY ENVIRONMENT.
155	1011008	10/08/2018	Deepak Agnihotri	Late Sh. R.G Agnihotri	Applied Sciences	Physics	INVESTIGATION OF FUNCTIONALIZED CARBON NANOSTRUCTURES USING DENSITY FUNCTIONAL THEORY FOR HYDROGEN STORAGE.
156	1005005	11/08/2018	Love Kumar	Gurdev	Engineering	Electronics & Communication Engineering	MODELLING AND CONVERGENCE ANALYSIS OF PASSIVE OPTICAL NETWORKS AND WIRELESS SENSOR NETWORK.
157	1109063	13/08/2018	Updesh Khinda	Harbhajan Singh	Business Administration	Management	PRODUCTION AND MARKETING PROCESSES OF MILK AND MILK PRODUCTS IN PUNJAB.
158	1409018	13/08/2018	Vipan Kumar Bhulal	Dhian Chand	Business Administration	Management	CUSTOMER RELATIONSHIP MANAGEMENT IN CO-OPERATIVE BANKING (A CASE STUDY OF KANGRA CENTRAL CO-OPERATIVE BANK).
159	1009057	13/08/2018	Gurpreet Singh	Satnam Singh	Business Administration	Management	ANTECEDENTS OF CUSTOMER LOYALTY IN FINANCIAL SERVICE SECTOR AND THEIR IMPACT ON BUSINESS PERFORMANCE.
160	1203032	16/08/2018	Gaganpreet Kaur	Mahima Singh	Engineering	Computer Science and Engineering	DEVELOPMENT AND EVALUATION OF MULTI MODAL BIOMETRIC AUTHENTICATION SYSTEM USING FUSION SCHEMES.
161	1211015	17/08/2018	Bhupendra Singh Rana	Inder Singh Rana	Applied Sciences	Physics	DOSIMETRIC MEASUREMENTS IN X-RAY BASED EXAMINATIONS AND RADIOLOGICAL INTERVENTIONAL PROCEDURES.
162	1003013	17/08/2018	Surbhi Gupta	A. K. Gupta	Engineering	Computer Science and Engineering	REVEALING DIGITAL FORGERY USING STATISTICAL QUALITY EVALUATION.
163	1106007	20/08/2018	Raminder Singh	Harnek Singh	Engineering	Mechanical Engineering	HEAT TRANSFER AND FLUID FLOW CHARACTERISTICS OF SOLAR AIR HEATER DUCT ROUGHENED BY BROKEN ARC SHAPED RIBS COMBINED WITH STAGGERED RIB PIECE.
164	1209112	10/08/2018	Ramanpreet Kaur	Jagraj Singh Sidhu	Business Administration	Management	HUMAN RESOURCE PRACTICES IN INDIAN BANKING INDUSTRY - A CASE STUDY OF PUNJAB.
165	1111019	23/08/2018	Kirandeep Kaur	Kulwant Singh	Applied Sciences	Physics	MEASUREMENT OF AIR, SOIL & WATER POLLUTION USING RADIATION TECHNIQUES.
166	1109007	23/08/2018	Priya Abrol	Naresh Abrol	Business Administration	Management	COMPETITIVE STRATEGIES IN ORGANISED AND UNORGANISED RETAIL STORES IN DELHI NCR AND TRI-CITY CHANDIGARH.
167	1210012	24/08/2018	Amit Goyal	Chaman Lal Goyal	Pharmaceutical Sciences	Pharmacy	ROLE OF VARIOUS NEUROTRANSMITTERS ON HIGH FAT DIET INDUCED OBESITY IN WISTAR RATS.
168	1309101	24/08/2018	Parveen Lata	Madan Lal Aggarwal	Business Administration	Management	AN ANALYSIS OF ROLE OF INFORMATION TECHNOLOGY IN BANKING SECTOR IN INDIA.
169	1211011	28/08/2018	Madan Lal	Charanji Lal	Applied Sciences	Physics	STRUCTURAL ELECTRONIC AND MECHANICAL PROPERTIES OF PEROVSKITES.
170	1208003	30/08/2018	Jatinder Kaur	Sukhdev Singh	Architecture	Architecture	ENERGY EFFICIENT ENVELOPE DESIGN STRATEGIES: OFFICE BUILDINGS IN COMPOSITE CLIMATE OF INDIA.

Sr. No	Reg. No	Date of Viva-Voce	Name of Candidate	F. Name	Branch	Specialization	Title of Thesis
171	17.13.09	31/08/2018	Mandeep Kaur Gulati	Gurbax Singh Gaba	Engineering	Computer Science and Engineering	DESIGN OF EFFICIENT ON-DEMAND QoS ROUTING TECHNIQUES FOR MANETS.
172	1005012	31/08/2018	Sarita Sharma	Hari Dutt Sharma	Engineering	Electronics & Communication Engineering	MICROWAVE CAVITY PERTURBATION TECHNIQUE FOR MEASURING DIELECTRIC PROPERTIES OF MATERIAL AT MICROWAVE FREQUENCIES.
173	1109013	31/08/2018	Ajwinder Singh	Bal Krishan	Business Administration	Management	A STUDY OF SERVICE QUALITY IN THE HEALTHCARE INDUSTRY IN PUNJAB, INDIA USING FUZZY SERVQUAL AND FUZZY MCDM.
174	1005002	04/09/2018	Ankur Singhal	Raj Kumar	Engineering	Electronics & Communication Engineering	PERFORMANCE EVALUATION AND OPTIMIZATION OF ACCESS NETWORKS.
175	1009058	06/09/2018	Palvi Narula	Nand Kumar	Business Administration	Management	FINANCIAL LITERACY AND INVESTMENT PATTERN IN PUNJAB: AN ANALYTICAL STUDY.
176	1309078	06/09/2018	Manjit Kour	Amarjit Singh	Business Administration	Management	ETHICAL IDEOLOGIES OF MANAGERS IN BANKING INDUSTRY: AN EMPIRICAL STUDY OF PUNJAB.
177	1205012	07/09/2018	Randhir Singh	Ranjit Singh	Engineering	Electronics & Communication Engineering	INVESTIGATIONS ON HARMONIC PLUS NOISE MODEL FOR THE PERFORMANCE ANALYSIS OF BIRD'S CALLS.
178	1311008	07/09/2018	Richa	Des Raj	Applied Sciences	Physics	EFFECT OF PROCESS PARAMETERS ON SYNTHESIS AND CHARACTERIZATION OF NICKEL ZINC FERRITES.
179	1011011	07/09/2018	Arun Upmanyu	D.P. Sharma	Applied Sciences	Physics	STUDY OF PHOTON ATOM INTERACTION PROCESSES IN X-RAY ENERGY REGION AND THEIR APPLICATIONS IN ELEMENTAL ANALYSIS.
180	1109119	07/09/2018	Aarti Ohri	Surinder Kumar Ohri	Business Administration	Management	CRITICAL EVALUATION OF THE IMPACT OF GLOBAL FINANCIAL MELTDOWN AND EUROPEAN SOVEREIGN DEBT CRISIS ON FOREIGN INVESTMENT IN INDIA.
181	1105008	10/09/2018	Cherry Bhargava	M.L.Bhargava	Engineering	Electronics & Communication Engineering	ELECTRONICS COMPONENTS FAILURE PREDICTION USING ARTIFICIAL INTELLIGENCE TECHNIQUES.
182	1003014	12/09/2018	Vijay Kumar Sinha	Mahendra Prasad Sinha	Engineering	Computer Science and Engineering	ENHANCING OF SECURITY AND INTELLIGENCE OF IRIS RECOGNITION SYSTEM.
183	1205009	14/09/2018	Gurpreet Kaur	Kuldip Singh	Engineering	Electronics & Communication Engineering	INTEGRATED SPEAKER AND SPEECH RECOGNITION FOR VOICE CONTROLLED APPLICATION.
184	1103023	20/09/2018	Sita Rani	Charan Dass	Engineering	Computer Science And Engineering	PERFORMANCE CHARACTERIZATION OF PARALLEL COMPUTATION IN BIOINFORMATICS APPLICATIONS.
185	1509007	21/09/2018	Vaishali Sethi	Ashawani Kumar Nanda	Business Administration	Management	A STUDY OF CONSUMER BEHAVIOUR TOWARDS GREEN PRODUCTS: TESTING THE THEORY OF PLANNED BEHAVIOUR.
186	1212002	21/09/2018	Jeevan Jyoti	Subash Chand	Applied Sciences	Chemistry	GREEN SYNTHESIS, CHARACTERIZATION AND OPTIMIZATION OF COPPER NANOPARTICLES FOR THE REMEDIATION OF ARSENIC BEARING UNDERGROUND WATER.
187	1303087	24/09/2018	Prateek Agrawal	Anand Kumar Agrawal	Engineering	Computer Science and Engineering	A MACHINE TRANSLATION SYSTEM FOR SANSKRIT TO HINDI LANGUAGE.

Sr. No	Reg. No	Date of Viva-Voce	Name of Candidate	F. Name	Branch	Specialization	Title of Thesis
188	1105026	25/09/2018	Sukhwinder Kaur	Bhupinder Singh	Engineering	Electronics & Communication Engineering	SECURITY ENHANCEMENT USING DIGITAL IMAGE WATERMARKING BY COMPLEX WAVELET TRANSFORM.
189	1103031	25/09/2018	Sukhjot Singh Sehra	Baldev Singh	Engineering	Computer Science and Engineering	ASSESSMENT OF OPENSTREETMAP DATA FOR ROAD NETWORK NAVIGABILITY.
190	1009016	01/10/2018	Kavita Sharma	Satish Chander Kishore	Business Administration	Management	INVESTOR PERCEPTION TOWARDS MUTUAL FUNDS: A STUDY OF FACULTY OF ENGINEERING COLLEGES IN PUNJAB.
191	1003017	01/10/2018	Pankaj	Surinder Kumar	Engineering	Computer Science and Engineering	IMPLEMENTING MACHINE LEARNING ALGORITHMS FOR DISTANCE BASED PHYLOGENETIC TREES
192	1203040	01/10/2018	Amit Chhabra	Jai Pal Chhabra	Engineering	Computer Science and Engineering	Experimental Evaluation of Quality of Voice Traffic over 802.11 wireless mesh network.
193	1413002	01/10/2018	Monika Rani	Ashok Kumar	Applied Sciences	Mathematics	STUDY OF SOME NON PERTURBATION METHODS TO SOLVE DIFFERENTIAL EQUATIONS.

Government of Punjab
Department of Technical Education & Industrial Training
(Technical Education Branch-II)

Notification

No. 13/60/08-11E2/ 1797

Dated Chandigarh, the 23 May 2011

In supersession of earlier notification No. 13/60/08 1TF2/2650 of 24.6.2010, the Governor of Punjab is pleased to re-notify the Fee Waiver Scheme as below in keeping with the guidelines of All India Council for Technical Education (AICTE) as contained in its Approval Process Hand Book (2011 - 2012):-

- i) The Scheme shall be applicable to all approved Technical Institutions offering Bachelors Programmes, Diploma and Post Diploma Programme of Three/Four years duration.
- ii) These seats shall be 5% over and above the sanctioned intake.
- iii) The Competent Authority for admissions shall be the same as for regular admission and the eligibility criteria with regard to qualifications shall be the same as notified for other categories.
- iv) The scheme shall be mandatory for all Institutions approved by the AICTE.
- v) Sons and daughters of parents whose annual income is less than Rs.2.50 lakhs from all sources shall only be eligible for seats under this scheme.
- vi) The Waiver shall be limited to the tuition fee as prescribed by the State Government. All other fee except tuition fees will have to be paid by the beneficiary.
- vii) The admission shall be made by Punjab Technical University for degree level programmes in colleges affiliated to it and by Punjab State Board of Technical Education & Industrial Training for diploma level courses in institutions affiliated to it.
- viii) In the event of non availability of students in this category, the same shall not be given to any other category of applicants.
- ix) The Punjab Technical University and the Punjab State Board of Technical Education & Industrial Training shall invite applications under this category, make a separate merit list and effect admissions on the basis of the merit list so generated, through a separate counselling which shall be held prior to regular counselling for admissions to various other categories.
- x) The Institutions shall publish in their brochure and website the details of this scheme.
- xi) The Punjab Technical University and the Punjab State Board of Technical Education & Industrial Training shall submit a separate list of the students admitted under this category to the institute to which they are admitted for compliance.
- xii) The Punjab Technical University and the Punjab State Board of Technical Education & Industrial Training shall issue a letter to each of the beneficiary student admitted under this scheme and such a beneficiary shall not be allowed to change Institution or Course under any circumstances. In case, a selected beneficiary

other category, he shall be allowed to do so provided that the seat vacated by him shall go to the next eligible candidate under this scheme.

- xiii) All Institutions shall display information regarding candidates admitted under this scheme on their websites for information of general public and send a copy thereof to the Punjab Technical University and the Punjab State Board of Technical Education & Industrial Training, as the case may be.
- xiv) The amount of fee thus waived off will not be claimed by any institution from the Government or any other authority in any context.
- xv) The fee waiver to a student shall be for the complete duration of the course.
- xvi) The student availing fee waiver seat will not be entitled to avail financial assistance under any other Government Scheme what so ever. However, he/ she shall be eligible for any scholarship available on competition/ merit basis.
- xvii) The implementation of this scheme shall be subject to any amendments/ charges or orders of the State Government as may be issued from time to time.

2.0 This notification shall come into force with immediate effect.

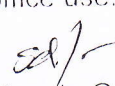
Dated Chandigarh
the 22nd May 2011

Suresh Kumar, IAS
Principal Secretary to Government of Punjab
Department of Technical Education &
Industrial Training.

Endst. No. 13/60/08-1TE2/

Dated Chandigarh, the May 2011

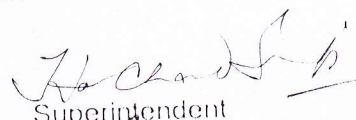
A copy is forwarded to Controller, Printing and Stationery, Punjab, Chandigarh with a request to publish the Notification in Punjab Government Gazette (Extra Ordinary) and supply 50 copies for office use.


Additional Secretary to Govt of Punjab
Deptt of Technical Education & Industrial Training

Endst. No. 13/60/08-1TE2/ 1799 Dated Chandigarh, the 23 May 2011

A copy is forwarded to the following for information and necessary action:

1. The Director, Technical Education & Industrial Training, Punjab, Chandigarh.
2. The Vice-Chancellor, Punjab Technical University, Jalandhar
3. The Chairman, Punjab State Board of Technical Education & Industrial Training, Chandigarh


Superintendent

Government of Punjab
Department of Technical Education & Industrial Training
(Technical Education-2 Branch)

NOTIFICATION

No.13/60/08/1TE2/ 2007

Dated: 31/5/12 10.68
1.6.12

In partial modification of Punjab Government Notification No.13/60/2008 /1TE2/1797, dated 23-5-2011, on the basis of Approval Process Hand Book (2011-12), All India Council of Technical Education, New Delhi, the Governor of Punjab is pleased to amend para (v) of the notification as under:-

"Sons and daughters of parents whose annual income is less than Rs.4.50 lakhs from all sources shall only be eligible for seats under this scheme."

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ਡਾਇਰੈਕਟਰ 1325
ਦਿਨ 01-6-12

Dated, Chandigarh, the

28-5-12

S.S.Chanay, IAS
Principal Secretary to Govt. of Punjab
Department of Technical Education & Indl. Training

No.13/60/08/1TE2/

Dated:

A copy is forwarded to the Controller, Printing & Stationery, Punjab, Chandigarh with a request to publish the Notification in Punjab Government Gazette (Ordinary) and supply 20 copies for office use.

(Dr.A. Karthik, IAS)

Additional Secretary to Govt. of Punjab
Department of Technical Education & Indl. Training

No.13/60/08/1TE2/ 2008

Dated: 31/5/12

A copy is forwarded to the following for information and necessary action:-

- 1) The Director, Technical Education & Industrial Training, Punjab, Chandigarh.
- 2) Secretary, Punjab State Board of Technical Education & Industrial Training.
- 3) The Vice Chancellor, Punjab Technical University, Jalandhar.
- 4) The Vice Chancellor, Punjabi University, Patiala.
- 5) The Vice Chancellor, Guru Nanak Dev University, Amritsar.
- 6) The Incharge, Computer Section, office of the Commissioner, Technical Education & Industrial Training, Punjab, Chandigarh.

Superintendent

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GOVERNMENT OF PUNJAB
DEPARTMENT OF TECHNICAL EDUCATION & INDUSTRIAL TRAINING
(TECHNICAL EDUCATION BRANCH-II)

NOTIFICATION

No. 13/60/08-1TE2/2092

Dated the Chandigarh 18.7.13

In continuation of Punjab Government Notification No. 13/60/2008-1TE2/1797 dated 23.5.11 and partial notification no. 13/60/08-1TE2/2007 dated 31.5.12, on the basis of Approval Process Hand Book (2013-14), All India Council of Technical Education, New Delhi, the Governor of Punjab is pleased to amend para (i) of the notification as under:

"The scheme shall be applicable to all approved Technical Institutions offering Bachelor Programs, Diploma and Post Diploma program and lateral entry provisions of these programs."

Dated: Chandigarh the
11-7-13

A.R.Talwar, IAS
Principal Secretary to Govt. of Punjab
Deptt. of Technical Education & Indl. Training

Endst. No. 13/60/08-1TE2/

Dated:

A copy is forwarded to Controller, Printing and Stationery, Punjab, Chandigarh with a request to publish the Notification in Punjab Government Gazette (Ordinary) and supply 20 copies for office use.

sd/
Special Secretary to Govt. of Punjab
Deptt. of Technical Education & Indl. Training

Endst. No. 13/60/08-1TE2/ 2099

Dated: 18.7.13

A copy is forwarded to the following for information and necessary action: -

1. The Director, Technical Education & Industrial Training, Punjab, Chandigarh.
2. Secretary, Punjab State Board of Technical Education & Industrial Training.
3. The Vice Chancellor, Punjab Technical University, Jalandhar
4. The Vice Chancellor, Punjabi University, Patiala
5. The Vice Chancellor, Guru Nanak Dev University, Amritsar
- ✓ 6. The Incharge, Computer Section, Office of the Director, Technical Education & Industrial Training, Punjab, Chandigarh.

ABal
Superintendent

Sr. No.	Brach	Course Name	Batch	Syllabus Status
1	B. Tech.	Electronics & Communication Engineering	2018	Study Scheme 3 rd to 8 th semester is done and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Engineering.aspx
2	B. Tech.	Electronics & Instrumentation Engineering	2018	Study Scheme 3 rd to 8 th semester is done and uploaded on University website, Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Engineering.aspx
3	B. Tech.	Electronics & Telecomm. Engineering	2018	Study Scheme 3 rd to 8 th semester is done and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Engineering.aspx
4	M. Tech.	Electronics & Communication Engineering	2018	Study Scheme & syllabus of 1 st to 4 th Semester is done. Uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Engineering.aspx
5	M. Tech.	Electronics & Communication Engineering (Wireless Communications)	2018	Study Scheme & syllabus of 1 st to 4 th Semester is done. Uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Engineering.aspx
6	M. Tech.	M. Tech. Electronics Product Design & Technology	2018	Study Scheme & syllabus of 1 st to 4 th Semester is done. Uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Engineering.aspx
7	M. Tech.	Embedded System	2018	Study Scheme & syllabus of 1 st to 4 th Semester is done. Uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Engineering.aspx
8	M. Tech.	VLSI Design	2018	Study Scheme & syllabus of 1 st to 4 th Semester is done. Uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Engineering.aspx
9	B. Tech.	Computer Science Engineering	2018	Study Scheme 3 rd to 8 th semester is done and uploaded on University website Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Engineering.aspx
10	B. Tech.	Information Technology	2018	Study Scheme 3 rd to 8 th semester is done and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Engineering.aspx
11	M. Tech	Computer Science & Engineering	2018	Study Scheme & syllabus of 1 st to 4 th Semester is done. Uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Engineering.aspx

12	M. Tech	Information Technology	2018	Study Scheme of 1 st to 4 th Semester and syllabus of 1 st year is done. Uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Engineering.aspx
13	M. Tech	Computer Science Engineering (Cyber Security)	2018	Study Scheme & Syllabus of 1 st Semester is done and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Engineering.aspx
14	M. Tech.	Structural Engineering	2018	Study scheme & Syllabus of 1 st to 4 th semester is done and upload on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Engineering.aspx
15	M. Tech.	Geo Technical Engineering	2018	Study scheme & Syllabus of 1 st to 4 th semester is done and upload on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Engineering.aspx
16	M. Tech.	Thermal Engineering	2018	Study scheme & Syllabus of 1 st to 4 th semester is done and upload on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Engineering.aspx
17	B. Tech.	Electrical Engineering	2018	Study Scheme & Syllabus of 3 rd to 8 th semester is done and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Engineering.aspx
18	M. Tech.	Power Engineering	2018	Study Scheme 1 st to 4 th semester & Syllabus of 1 st semester is done and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Engineering.aspx
19	M. Tech.	Electrical Engineering	2018	Study Scheme 1 st to 4 th semester & Syllabus of 1 st semester is done and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Engineering.aspx
20	M. Tech.	Power System	2018	Study Scheme 1 st to 4 th semester & Syllabus of 1 st semester is done and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Engineering.aspx
21	M. Tech	Electrical Engineering (Power System)	2018	Study Scheme 1 st to 4 th semester & Syllabus of 1 st semester is done and uploaded on University website
22	Bachelor	Bachelor of Design	2018	Study Scheme of 1 st year is done.
23	Master	M.Sc. (Chemistry)	2018	Study scheme & Syllabus of 1 st 4 th semester is done and upload on University website. . Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/MasterOfScience_MSC.aspx

24	Bachelor	B.Sc. (Non-Medical)	2018	Study Scheme & Syllabus of 1 st Year is Done and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/MedLabScience.aspx
25	Master	M.Sc. Mathematics	2017 & 2018	Study scheme & Syllabus of 1 st to 4 th semester is done and upload on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/MasterOfScience_MSC.aspx
26	M. Tech.	Nano Science & Technology	2018	Study scheme & Syllabus of 1 st to 4 th semester is done and upload on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/MasterOfScience_MSC.aspx
27	Master	M.Sc. Physics	2018	Study scheme & Syllabus of 1 st 4 th semester is done and upload on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/MasterOfScience_MSC.aspx
28	M.Sc.	Food Technology	2018	Study scheme & Syllabus of 1 st 4 th semester is done and upload on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/MasterOfScience_MSC.aspx
29	B.Sc. (Hons)	(Nutrition & Dietetics) 4 Yrs.	2018	Study scheme & Syllabus of 1 st & 2 nd semester is done and upload on University website. . Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/MedLabScience.aspx
30	M. Tech	(Food Technology)	2018	Study scheme & Syllabus of 1 st to 4 th semester is done and upload on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Engineering.aspx
31	Bachelor	B.A .(Journalism and Mass Communication)	2018	Study scheme & Syllabus of 1 st to 2 nd semester is done and upload on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Journilsmmandmasscom.aspx
32	Master	MA (Journalism and Mass Communication)	2018	Study scheme & Syllabus of 1 st to 2 nd semester is done and upload on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Journilsmmandmasscom.aspx
33	Bachelor	Bachelor of Business Administration	2018	Study Scheme 1 st to 6 th semester and syllabus of 1 st year is completed and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Management.aspx
34	Bachelor	BBA(Retail Management)	2018	Study Scheme and syllabus of 1 st year is completed and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Management.aspx

35	Bachelor	BBA (Rural Development)	2018	Study Scheme and syllabus of 1 st year is completed and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Management.aspx
36	Bachelor	B.Com (E-Commerce)	2018	Study Scheme 1 st to 6 th semester and syllabus of 1 st year is completed and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Management.aspx
37	Bachelor	B.Com. (Honrs)	2018	Study Scheme 1 st to 6 th semester and syllabus of 1 st year is completed and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Management.aspx
38	Bachelor	BBA (Health, Spa and Resort)	2018	Study Scheme and syllabus of 1 st year is completed and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Management.aspx
39	Bachelor	BBA (Sales, Marketing, Advertising and PR Management)	2018	Study Scheme and syllabus of 1 st year is completed and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Management.aspx
40	Bachelor	BBA (Service Industry)	2018	Study Scheme and syllabus of 1 st year is completed and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Management.aspx
41	Bachelor	BBA (Events Management)	2018	Study Scheme and syllabus of 1 st year is completed and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Management.aspx
42	Bachelor	BBA (Business Economics)	2018	Study Scheme and syllabus of 1 st year is completed and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Management.aspx
43	Master	Master in Business Management (MBA)	2018	Study Scheme of 1 st to 4 th Semester and Syllabus of 1 st year is completed and upload on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Management.aspx .

44	Master	Master in Business Management (IB)	2018	Study Scheme & Syllabus of 1 st and 2 nd semester is done and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Management.aspx
45	Master	M.Com.	2018	Study Scheme & Syllabus of 1 st semester is done and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Management.aspx
46	Bachelor	B.Sc.(Medical Lab Sciences)	2018	Study Scheme and Syllabus of 1 st 6 th semester is completed and upload on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/MedLabScience.aspx
47	Master	M. Sc. Medical Lab Technology (Bio-Chemistry)	2018	Study Scheme & Syllabus of 1 st to 4 th semester is Done and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/MedLabScience.aspx
48	B. Tech.	Bio-Technology	2018	Study Scheme 3 rd to 8 th semester done and ploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Engineering.aspx
49	M. Tech.	Bio Technology	2018	Study Scheme 1 st to 4 th semester and syllabus 1 st semester done. Uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Engineering.aspx
50	Bachelor	B. Sc. (Bio-Technology)	2018	Study Scheme 1 st to 6 th semester and syllabus of 1 st semester done and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Biotechnology.aspx
51	Master	M.Sc. (Bio-Technology)	2018	Study Scheme 1 st to 4 th semester done. Uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Biotechnology.aspx
52	Bachelor	B.Sc.(Fashion Design)	2018	Study scheme 1 st 6 th semester and Syllabus 1 st year is done and upload on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/FashionTech.aspx
53	Bachelor	B.Sc.(Fashion Design Knits)	2018	Study scheme and Syllabus of 1 st 6 th semester is done and upload on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/FashionTech.aspx
54	Master	M.Sc. (Garment Manufacturing Tech.)	2018	Study scheme & Syllabus of 1 st 4 th semester is done and upload on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/FashionTech.aspx

55	Master	M.Sc. (Fashion Mkt. Mgmt.)	2018	Study scheme & Syllabus of 1 st 4 th semester is done and upload on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/FashionTech.aspx
56	B. Tech	Chemical Engg.	2018	Study scheme and syllabus of 1 st to 8 th semester done and upload on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Engineering.aspx
57	B. Tech	Petrochem & Petroleum Refinery Engineering	2018	Study scheme & Syllabus of 1 st year is done and upload on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Engineering.aspx
58	M. Tech.	Chemical Engg.	2018	Study scheme & Syllabus of 1 st 4 th semester is done and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Engineering.aspx
59	B. Tech	Aerospace Engg.	2018	Study scheme 3 rd to 8 th done and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Engineering.aspx
60	B. Tech	Aeronautical Engg.	2018	Study scheme 3 rd to 8 th done and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Engineering.aspx
61	Bachelor	B.Sc.-Honors (Aircraft Maintenance)	2018	Study Scheme & Syllabus of 1 st to 6 th Semester is done and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Engineering.aspx
62	Bachelor	Bachelor of Hotel Management & Catering Technology	2018	Study Scheme of 1 st to 4 th Semester and Syllabus of 1 st year is done and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/HotelManagement.aspx
63	Bachelor	Bachelor of Travel & Tourism Management	2018	Study Scheme of 1 st to 4 th Semester and Syllabus of 1 st year is done and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/HotelManagement.aspx
64	Master	Master of Travel & Tourism Management	2018	Study Scheme and Syllabus of 1 st to 4 th Semester is done and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/HotelManagement.aspx
65	Master	Master of Hotel Management & Catering Technology	2018	Study Scheme and Syllabus of 1 st to 4 th Semester is done and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/HotelManagement.aspx

66	Bachelor	B. Pharmacy (Practice)	2018	The complete Study Scheme and Syllabus 1 st and 2 nd year is done and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Pharmacy.aspx
67	Diploma	Post Graduate Diploma in Pharmaceutical Analysis	2018	Study Scheme of 1 st year and syllabus of 1 st semester is done and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/dipcourse.aspx
68	Diploma	Post Graduate Diploma in Regulatory Affairs (1 Year)	2018	Study Scheme of 1 st year and syllabus of 1 st semester is done and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/dipcourse.aspx
69	Diploma	Post Graduate Diploma in Pharmaceutical Packaging	2018	Study Scheme of 1 st year and syllabus of 1 st semester is done and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/dipcourse.aspx
70	Diploma	Post Graduate Diploma in Herbal Drugs (1 Year)	2018	Study Scheme of 1 st year and syllabus of 1 st semester is done and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/dipcourse.aspx
71	Diploma	Post Graduate Diploma in Pharmaceutical Analysis and Quality Control (1 Year)	2018	Study Scheme of 1 st Year is done and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/dipcourse.aspx
72	Diploma	Post Graduate Diploma in Pharmaceutical Marketing and Entrepreneurship (1 Year)	2018	Study Scheme of 1 st Year is done and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/dipcourse.aspx
73	Diploma	Post Graduate Diploma in Pharmacovigilance & Clinical Trials (1 Year)	2018	Study Scheme of 1 st Year is done and uploaded on University website . Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/dipcourse.aspx
74	Master	M.Sc. (Clinical Research)	2018	Study Scheme and syllabus of 1 st Semester is done and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/dipcourse.aspx

75	M. Tech	Mechanical Engineering	2017	Study Scheme and syllabus of 1 st to 4 th Semester is done and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Engineering.aspx
76	Bachelor	B.Sc. (Agriculture)	2014	Study Scheme and syllabus of 1 st to 8 th Semester is done and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Engineering.aspx
77	Bachelor	B.Sc. Catering & Culinary Arts	2015	Study Scheme and syllabus of 1 st to 6 th Semester is done and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Engineering.aspx
78	M. Tech	M. Tech CSE (Big Data Analytics)	2016	Study Scheme and syllabus of 1 st to 4 th Semester is done and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Engineering.aspx
79	B. Tech	B. Tech 1 st Year	2018	Study Scheme and syllabus of 1 st year is done and uploaded on University website. Detailed Syllabus available on University website under link : https://www.ptu.ac.in/Syllabus/Engineering.aspx

The following paper code has been updated due to GST

1. MBA (Executive), Batch 2015, Paper Code-MBX-301
2. BBA Batch 2012 onwards, 5th Semester, Paper Code-BBA-505
3. B.Com Professional, Batch 2011, Paper Code BCOP402

B. Voc. Courses Batch 2018

Sr. No.	Course Name	Batch	Syllabus Status
1	B. Voc. in Software Development,	2018	Study Scheme & Syllabus of 1 st to 6 th semester is done and upload on University website under link : https://www.ptu.ac.in/Syllabus/bvoc.aspx
2	B. Voc. in Graphics & Multimedia	2018	Study Scheme & Syllabus of 1 st to 6 th semester is done and upload on University website under link : https://www.ptu.ac.in/Syllabus/bvoc.aspx
3	B. Voc. in Electronics Manufacturing Services,	2018	Study Scheme & Syllabus of 1 st and 2 nd semester is done and upload on University website under link : https://www.ptu.ac.in/Syllabus/bvoc.aspx
4	B. Voc. in Automotive Manufacturing Technology,	2018	Study Scheme & Syllabus of 1 st and 2 nd semester is done and upload on University website under link : https://www.ptu.ac.in/Syllabus/bvoc.aspx
5	B. Voc. in Automobile Servicing	2018	Study Scheme & Syllabus of 1 st and 2 nd semester is done and upload on University website under link : https://www.ptu.ac.in/Syllabus/bvoc.aspx
6	B. Voc. in Refrigeration & Air Conditioning	2018	Study Scheme & Syllabus of 1 st and 2 nd semester is done and upload on University website under link : https://www.ptu.ac.in/Syllabus/bvoc.aspx
7	B. Voc. (Agriculture)	2018	Study Scheme & Syllabus of 1 st and 2 nd semester is done and upload on University website under link : https://www.ptu.ac.in/Syllabus/bvoc.aspx

Minutes (Proceedings)

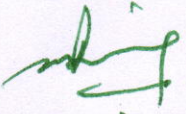
Minutes of the meeting of the committee constituted to frame rational policy for awarding internal marks to the students of University held on 24-09-2018 at 12:00 noon in the office of the Director (Academics).

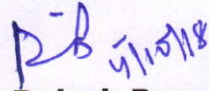
The following were present:

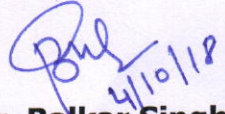
1. Dr. Balkar Singh, Director (Academics)
2. Dr. Manoj Kumar, Principal, DAVIET, Jalandhar
3. Dr. Rajesh Bagga, Director, APJIMT, Jalandhar

The following are the recommendations of the committee:

1. The regulations for awarding sessional / internal marks circulated to all affiliated colleges vide no. IKGPTU/DA/2224 dated: 19-07-2017 should be strictly followed by all the affiliated colleges.
2. Upper capping on awarding sessional/internal assessment should be 90% (in overall). However, in exceptional cases sessionals over & above 90% can be awarded with the approval of visiting rationalizing committee based on documentary evidences of exceptional performance.
3. Rationalization Committee may visit randomly during 10 days before the commencement of 'University End Semester Examinations' with mutual consent of the Institution to be visited.
4. The Rationalization Committee deputed by IKG PTU may call the students to be present with evaluated answer sheets of the MSTs, Assignments, Tutorial sheets, Drawing sheets, Quizzes, Workshop jobs, Minor/Major Projects etc. Therefore, the complete record should be maintained by the Institutions.
5. Based on the record provided, Rationalization Committee shall have the right to moderate the awards of the concerned Department/Institute.
6. Rationalization Committee shall be empowered to give their recommendations/ observations for the improvement of academics of the institution.
7. Honorarium and TA shall be paid to the Rationalization Committee by the Institute as per University norms.


(Dr. Manoj Kumar)
Principal
DAVIET, Jalandhar


(Dr. Rajesh Bagga)
Director
APJIMT, Jalandhar


(Dr. Balkar Singh)
Director (Academics)

Subject: Minutes of meeting on issues of (i) Improvement in Grade and (ii) Consideration of Case/s in grading system at par with 40% pass rule.

Vice Chancellor constituted a committee of the following on 09.10.18 for recommendations on the issues cited in the subject above:

- (1) Director cum Principal, DAVIET Jalandhar
- (2) Director (Academics)
- (3) Deputy Controller (conduct)

Committee members met on 12.10.18 at 3Pm in o/o Director Academics. Upon deliberations committee recommend the following

(A) For improvement in grade

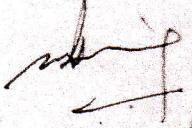
- (i) Any student having grade "D" or above up to "B+" (as per table below) can be considered eligible to apply.

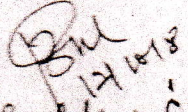
S No	Grade	Qualitative Meaning	Grade Points
1	O	Outstanding	10
2	A	Excellent	9
3	B+	Very Good	8
4	B	Good	7
5	C	Average	6
6	D	Marginal	4
7	F	Failed	--
8	I	Incomplete	--
9	E	Detained	--

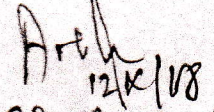
- (ii) Such student can appear in maximum 10 Theory or Practical (Both External only) examinations in two end semester examinations and may opt for maximum 5 papers in one session of examination.
- (iii) Fee of Rs. 5000/- per Paper shall be charged.
- (iv) ~~Only~~ single opportunity shall be given to a student for exercising the option of improvement in grade.
- (v) Result shall be declared only if the attempt of student is sufficient enough for change in his/her already awarded grade. A student shall be awarded maximum up to "A" grade only and in "O" grade shall not be awarded in any circumstances.

(B) Consideration of Case/s in grading system at par with 40% pass rule

Any student who has qualified all subject except one, can be declared pass in that subject with either grade "D" or "C" only, subject to the sum of INT+EXT is qualitatively sufficient for these grades. If sum of INT+EXT comes out with B, B+ etc., the same shall be scaled down to grade "C"


(Dr. Manoj Kumar)


(Dr. Balkar Singh)


Arch 12/10/18
(Dr. Amanpreet Singh)



Dean Academic
No. 1108
Date 9.8.2017.



सत्यमेव जयते

प्रो. (डॉ.) जसपाल एस. सन्धू

सचिव

Prof. Dr. Jaspal S. Sandhu

MBBS, MS (Ortho), DSM, FAIS, FASM, FAFSM, FFIMS, FAMS

Secretary

विश्वविद्यालय अनुदान आयोग
University Grants Commission

(मानव संसाधन विकास मंत्रालय, भारत सरकार)
(Ministry of Human Resource Development, Govt. of India)

बहादुरशाह ज़फ़र मार्ग, नई दिल्ली-110002
Bahadur Shah Zafar Marg, New Delhi-110002

Ph.: 011-23239337, 23236288,

Fax : 011-23238858, email : jssandhu.ugc@nic.in

AR (ED)

D.O.No.F.1-1/2017(Secy)

Dean (Academic)

13th July, 2017

Dear Sir/Madam,

Thanks for participation in the National Convention on Digital Initiatives in Higher Education held from 8-10 July, 2017 at Vigyan Bhavan, New Delhi. I am sharing herewith the Action Plan decided in the Convention for your immediate attention.

The **online courses on the SWAYAM portal** have already begun. The list of courses which are live where enrolment can be done is attached.

You are requested to kindly publicise these courses among the students of your esteemed University and the affiliated Colleges so that maximum student can enrol and benefit from these courses.

With kind regards,

Yours sincerely,

(Jaspal S. Sandhu)

The Vice-Chancellor
The I.K. Gujaral Punjab Technical University
Jalandhar Kapurthala Highway,
Kapurthala-144603.

Mr. Rakesh

Pl. circulate to all

DR (AT)

Pl do it (urgent)

8/8/17

I.K.G. Punjab Technical University
Vice-Chancellor Office
Diary No. 330 Date 7/8/17
Sent to

I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY, JALANDHAR
ACADEMIC CALENDAR

Session: 2018-19

Odd Semester		
Sr. No.	Description	Period
1	Session (Old students)	13 th July, 2018- 15 th November, 2018
2	Session (1 st semester)	1 st August – 30 th November, 2018
3	First Mid Semester Examination	September, 2018 (4 th – 6 th)
4	Second Mid Semester Examination	November, 2018 (1 st - 5 th)
5	Preparatory Holidays	November, 2018 (16 th – 20 th)
6	End Semester Examination	November, 2018 (21 st)
7	*End Semester Practical Examination	December , 2018 (15 th – 20 th)
8	Winter Vacations	December , 2018 (21 st - 31 st)

Even Semester		
Sr. No.	Description	Period
1	Session	01 st January, 2019 –26 th April, 2019
2	First Mid Semester Examination	February, 2019 (25 th - 27 th)
3	Second Mid Semester Examination	April, 2019 (8 th – 10 th)
4	Preparatory Holidays	April, 2019 (27 th -30 th)
5	End Semester Examination	May 2019 (1 st - 18 th)
6	*End Semester Practical Examination	May, 2019 (21 st – 25 th)
7	Institutional Training/ Workshop Training	May 2019 (27 th) - July 2019 (12 th)
8	Vacations for Faculty	May 2019 (26 th) – June 2019 (30 th)

- Note**
1. *Practical examinations for all the branches will start immediate after the end of regular examinations.
 2. Number of days falling short of 90 (100 for Pharmacy course) should be compensated by making Saturdays Working by the institutions.

I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY

*Estd. Under Punjab Technical University Act, 1996
(Punjab Act No. 1 of 1997)*

Ref. No. : IKGPTU/Reg/N/

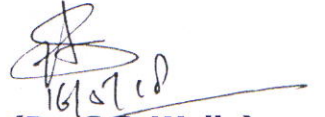
Dated : .05.2018

NOTIFICATION

Sub: **Closure of Courses w.e.f. session 2018-19.**

As approved by the Vice Chancellor, the following courses have been closed w.e.f. session 2018-19.

1. M. Sc. (Public Health Program)
2. Master of Management (Education and Counselling)

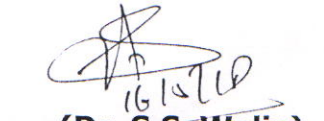

(Dr. S.S. Walia)
Registrar

Endst. No. IKGPTU/Reg/N/1845-1852

Dated: /6.05.2018

A copy is forwarded to the following officers for information please.

1. Incharge Secretariat, O/o Vice Chancellor: For information of Vice Chancellor
2. Director (Academics), IKGPTU
3. All HoDs (Teaching & Non-Teaching), IKGPTU
4. Dy..Registrar (College Development), IKGPTU
5. Dy. Controller (ITS): For uploading on website
6. Assistant Registrar (Admission Cell), IKGPTU
7. Principal, ITFT College, Mohali
8. All Concerned


(Dr. S.S. Walia)
Registrar

I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY

Estd. Under Punjab Technical University Act, 1996
(Punjab Act No. 1 of 1997)

Ref. No. : IKGPTU/Reg/N/ 2010

NOTIFICATION

Sub: **Guidelines regarding admissions from session 2018-19.**

The Hon'ble Vice Chancellor has approved following guideline regarding admissions from session 2018-19

Dated: 01.06.2018 Mr. R. K. Singh

1. DPCAS
2. ANGA
3. P.A.

A. For AICTE Courses

1. The last date of admission to AICTE courses shall be 15th August, 2018.
2. The college / Institute must upload the list of admitted students on the webportal of the University latest by 25th August, 2018, however, in case of any discrepancy, the institutes/Colleges are allowed to submit it as a hard copy to the University, by all means, upto 3rd September, 2018.
3. A candidate must have passed the qualifying examination at the time of admission.

B. For Non-AICTE courses

1. The last date of admission to Non-AICTE courses shall be 15th September, 2018.
2. The candidate must have passed qualifying examination at the time of admission.
3. The candidates having compartment / re-appear in qualifying examination can be admitted provisionally, however, such candidates are required to pass the qualifying examination before the commencement of 1st semester examination of University.
4. The college / Institute must upload the list of admitted students on the webportal of the University latest by 22nd September, 2018, however, in case of any discrepancy, the institutes/Colleges are allowed to submit it as a hard copy to the University, by all means, upto 29th September, 2018.

(Dr. S.S. Walia)
Registrar

Endst. No. IKGPTU/Reg/N/ 2011 - 2015

Dated: 01.06.2018

A copy is forwarded to the following officers for information please.

1. Incharge Secretariat, O/o Vice Chancellor: For information of Vice Chancellor
2. Chief Coordinator Admission, 2018-19
3. All HoDs (Teaching & Non Teaching)
4. Director, Main Campus
5. All Affiliated Colleges

(Dr. S.S. Walia)
Registrar

I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY

Estd. Under Punjab Technical University Act, 1996
(Punjab Act No. 1 of 1997)

Ref. No. : IKGPTU/Reg/N/ 2289

Dated : 13.07.2018

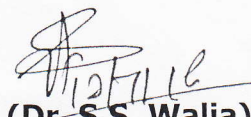
NOTIFICATION

Sub: **Amendment regarding admissions from session 2018-19.**

In the continuation of notification no. IKGPTU/Reg/N/2010-2015 dated 01.06.2018 and as approved by Vice chancellor, the following partial modifications are made regarding admission to AICTE Courses for the session 2018-19:

1. The last date of admission to AICTE course shall be 15th August, 2018.
2. The College/Institute must upload the list of admitted students on the webportal of the University latest by 15th August, 2018. The portal will be closed on 15.08.2018 at 11:59 PM.

All other Guidelines issued in this notification shall remain same.

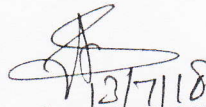

(Dr. S.S. Walia)
Registrar

Endst. No. IKGPTU/Reg/N/ 2290-2295

Dated: 13 .07.2018

A copy is forwarded to the following officers for information please.

1. Incharge Secretariat, O/o Vice Chancellor: For information of Vice Chancellor
2. Chief Coordinator Admission, 2018-19
3. All HoDs (Teaching & Non Teaching)
4. Director, Main Campus
5. All Affiliated Colleges
6. Deputy Controller (ITS): For uploading on website


(Dr. S.S. Walia)
Registrar

I.K. Gujral Punjab Technical University
(Registrar Office)

Office Order

Sub: Constitution of committees for Grant of equivalence certificate to aspirants for admission under IKGPTU.

As approved by the Vice Chancellor, the following committee has been constituted to grant equivalence certificate for admission under IKGPTU to those students whose foreign equivalence is not available in the AIU Booklet or for which AIU is not providing equivalence:

1. Dean (Academics), IKGPTU
2. HOD/Professor, Mechanical Deptt., IKGPTU
3. Principal, PCTE, Baddowal
4. Deputy Registrar (Academics) IKGPTU


(Dr. Amanpreet Singh)
Registrar

Endst. No. IKGPTU/REG/00/525-529

Dated: 23.03.2018

A copy of the above is forwarded to the following for information and necessary action please.

1. Dean (Academics) IKGPTU
2. HOD/Professor, Mechanical Deptt., IKGPTU
3. Deputy Registrar (Academics) IKGPTU
4. Principal, PCTE, Baddowal
5. Assistant Registrar (Admission Cell)
6. File Copy


(Dr. Amanpreet Singh)
Registrar

Colleges Shifted from MRSPTU to IKGPTU

S.No	Name of College
1	Adesh Institute of Engineering & Technology, Faridkot
2	Adesh Institute of Higher Studies, Faridkot
3	Akal College of Pharmacy & Technical Education Mastuana Sahib, Sangrur.
4	Akal Institute of Management and Computer Applications, Rure Ke Kalan, Barnala
5	Aryans Business School, Rajpura, Patiala
6	Aryans College of Engineering, Rajpura, Patiala
7	Aryans Institute of Management & Technology, Rajpura, Patiala
8	Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib
9	Baba Hira Singh Bhattal Institute of Engineering & Technology, Lehragaga, Sangrur
10	Bhai Gurdas Degree College, Sangrur
11	Bhai Gurdas Institute of Engineering and Technology, Sangrur
12	Bhai Gurdas Institute of Management & Technology, Sangrur
13	Bhai Maha Singh College of Engineering Kotkapura Road, Sri Muktsar Sahib Pb.
14	BHAI MAHA SINGH COLLEGE OF INFORMATION TECHNOLOGY & LIFE SCIENCE, SRI MUKTSAR
15	BIS College of Engineering & Technology, Gagra, District Mog
16	BIS College of Pharmacy, Gagra, Moga
17	BIS Institutes of Sciences & Tech. Gagra, Moga
18	Continental Institute of Engineering and Technology, Jalvehra, Fatehgarh Sahib
19	Dr IT Business School, Banur, Patiala
20	Dr IT Institute of Management & Technology, Banur, Patiala
21	Gian Jyoti Group of Institutions, Shambhu Kalan, Patiala
22	Gurdasidevi Institute of Management & Technology, Budhlada, Mansa
23	Guru Teg Bahadur Khalsa College of Information Technology, Chhapiawali, Malout
24	Guru Teg Bahadur Khalsa Institute of Engineering & Technology, Chhapiawali, Malout
25	Indo Soviet Friendship College of Pharmacy, Moga
26	Lala Jagat Naryan Institute of Information Technology & Management, Village Jalalabad, Fazilka
27	Malout Institute of Management and Information Technology, Malout
28	Punjab Business School, Village Sarkapra, Distt. Fatehgarh sahib
29	Sai College of Pharmacy, Lehragaga
30	SBS State Technical Campus, Moga Road, Ferozepur
31	Swami Vivekanand College of Pharmacy, Ramnagar, Near Banur , Tehsil Rajpura, District Patiala
32	Swami Vivekanand Faculty of Technology and Management, Ramnagar, Near Banur , Tehsil Rajpura, District Patiala
33	Swami Vivekanand Institute of Engineering and Technology, Ramnagar, Near Banur , Tehsil Rajpura, District Patiala
34	Swift School of Pharmacy, Village Ghaggar Sarai, Rajpura, Distt. Patiala
35	Swift Technical Campus, Village Ghaggar Sarai, Rajpura, Distt. Patiala

New College 2018-19

Sr. No.	College Name	Course	Intake
1	Amritsar Pharmacy College, Amritsar	B.Pharmacy	100
2	Apeejay Institute of Engineering, Rama Mandi, Jalandhar	B.Tech. Electronics & Communication Engineering B.Tech. Computer Science Engineering	60 60
3	Allied College of Hospitality Culinary Arts and Management, Mohali	B. Sc. (Catering & Culinary Arts) Bachelor of Hotel Management & Catering Technology Bachelor of Tourism & Travel Management	30 60 30
4	Baba Kundan College, Sarpanch colony Kullianwal Jamalpur Ludhiana	Bachelor of Commerce (Hons) B. Sc. (Medical Lab Sciences) B. Sc. (Fashion Technology) Bachelor of Business Administration	30 30 30 30
5	CT College of Pharmacy, Shahpur, Jalandhar	B.Pharmacy	60
6	Global Institute of Pharmacy, Sohian Khurd, Amritsar	B.Pharmacy	60
7	Gulzar Institute of Professional Studies, Khanna, Ludhiana	B. Sc. (Fashion Design) B. Sc. (Medical Lab Sciences) B.A. (Journalism and Mass Communication) B. Sc. (Computer Science) Master of Commerce	60 60 60 60 60
8	Guru Ram Das College of Management and Technology, Distt. SBS Nagar	B. Sc. (Computer Science) Bachelor of Commerce (Hons) Bachelor in Computer Applications Bachelor of Business Administration	30 30 60 30
9	Hari Parkash Institute of Mgt. & Tech. HIMT, Shri Hargobindpur Road, Tanda	Bachelor of Commerce (Hons) Bachelor in Computer Applications B. Sc. (Information Technology)	30 60 60
10	Institute of Pharmaceutical Sciences, Bhaddal, Ropar	B.Pharmacy	60
11	K.C. College of Pharmacy, Nawanshahr	B.Pharmacy	60
12	Shree Hanumat Institute of Management & Technology, G.T. Road, Goraya, Distt. Jalandhar	Bachelor of Hotel Management & Catering Technology Bachelor of Business Administration Bachelor in Computer Applications Bachelor of Commerce (Hons) B. Sc. (Fashion Design)	60 60 90 30 30

13	SIGMA COLLEGE OF PHARMACY, LUDHIANA	B.Pharmacy	60
14	Shaheed Bhagat Singh College of Pharmacy, Sohian Kalan, Amritsar	B.Pharmacy	60
15	St. Soldier Institute of Business Management & Agriculture, Near NIT, Jalandhar	B. Sc. Honours (Agriculture) Bachelor in Computer Applications Bachelor of Business Administration Bachelor of Commerce (Hons)	30 30 30 30
16	Trinity Institute of Management & Technology, Jalandhar	Bachelor in Computer Applications Bachelor of Business Administration B. Sc. (Medical Lab Sciences)	30 30 60

List of Colleges (New Course & Increase in intake)
Session 2018-19

Sr. No.	College Name	Course Name	Previous Intake	Intake 2018-19
1	Amritsar College of Engineering and Technology Amritsar	B. Sc. (Fashion Design)	0	60
		Master of Hotel Management & Catering Technology	0	30
		M.Sc.(Computer Science)	0	60
		B.Tech. Plastic Technology	0	30
		M. Tech. Civil Engineering	0	18
		M. Tech. Mechanical Engineering	0	18
		B.Voc. (Automobile Servicing)	0	25
		B.Voc. (Refrigeration & AC)	0	25
		B.Voc. (Software Development)	0	25
2	Aman Bhalla Institute of Engg. & Tech., Pathankot	B. Sc. Honours (Agriculture)	0	60
3	Adesh Institute of Information Technology & Management, Ghauran, Mohali	Master of Commerce	0	60
4	A&M Institute of Management & Technology, Pathankot	B. Sc. Honours (Agriculture)	0	30
5	A&M Institute of Computer & Technology, Pathankot	B. Sc. (Medical Lab Sciences)	30	60
6	Arya Institute of Management and Technology Scheme No three SBS Nagar Palahi Road , Phagwara	B. Sc. (Fashion Design)	0	30
7	Baba Kuma Singh Ji Degree College, Hoshiar Nagar, Amritsar	B. Sc. (Medical Lab Sciences)	0	30
		B. Sc. (Fashion Design)	0	30
		B. Sc. (Information Technology)	0	60
8	Beant College of Eng & Tech, Gurdaspur	B. Sc. Honours (Agriculture)	0	60
9	Baba Khajandas College of Management Technology VPO Bhutta, Ludhiana	B. Sc. Honours (Agriculture)	0	60
10	Bhai Gurdas Institute of Engineering & Technology, Main Patiala Road, Sangrur	B.Sc. (Non Medical)	0	60
11	CGC Technical Campus Management, Jhanjeri, Mohali	Bachelor of Management Studies (Service Industry)	0	60
		Master of Commerce	0	60
12	Chandigarh Business School of Administration, Landran	Bachelor of Management Studies (Service Industry)	0	60
		Master of Commerce	0	60
		Bachelor of Commerce	120	180
13	CT Institute of Management and Information Technology, Maqsudan, Jalandhar	B.A. (Journalism and Mass Communication)	0	60

Sr. No.	College Name	Course Name	Previous Intake	Intake 2018-19
		B. Sc. (Animation & Multimedia Technology)	0	60
		B. Sc. Honours (Agriculture)	0	30
14	CT Institute of Hotel Management & Catering Technology, Maqsudan, Jalandhar	Bachelor of Hotel Management & Catering Technology	60	120
15	CT Institute of Hospitality Management, Shahpur, Jalandhar	B. Sc. Honours (Agriculture)	30	60
16	CT Institute of Management & Technology, Shahpur, Jalandhar	B. Sc. (Information Technology)	30	60
17	CKD Institute of Management and Technology Tarn Taran	PG Diploma in Hotel Management & Catering Technology	0	30
		Bachelor of Tourism and Travel Management	0	30
18	Continental Institute of Engineering & Technology, Jalvehra, Fatehgarh Sahib	Bachelor of Business Administration	30	30
		B. Sc. Honours (Agriculture)	60	60
		Bachelor of Hotel Management & Catering Technology	60	60
19	D A V Institute of Engineering & Technology, Jalandhar	Bachelor of Business Administration	0	60
		Bachelor in Computer Applications	0	60
20	DIPS Institute of Management and Technology, Jalandhar	M. Sc. (Medical Lab Technology)	0	30
		Master of Tourism and Travel Management	0	30
		B. Sc. (Animation & Multimedia Technology)	0	60
21	Doaba Business School, Ghataur, Kharar	B. Sc. Honours (Agriculture)	30	60
		Post-Graduate Diploma in Computer Applications	0	30
22	GCS Institute of Vocational Studies, Bhaddal, Ropar	B.Sc. (Honours) Aircraft Maintenance	0	60
		B. Sc. Honours (Agriculture)	30	60
		Bachelor of Hotel Management & Catering Technology	60	90
23	Global Institute of Management, Amritsar	B. Sc. (Medical Lab Sciences)	0	30
		B. Sc. Honours (Agriculture)	90	120
24	Global Institute of Management and Emerging Technologies, Village Sohian Khurd, Amrtisar Batala Road, Amritsar	B.Tech. (Architecture & Interior Decoration)	0	60
25	Gulzar School of Management, Khanna, Ludhiana	Bachelor of Hotel Management & Catering Technology	0	60
		Bachelor of Tourism and Travel Management	0	60
		B. Sc. Honours (Agriculture)	0	60

Sr. No.	College Name	Course Name	Previous Intake	Intake 2018-19
26	G H G Khalsa College of Pharmacy, Gurusar Sadhar, Ludhiana	B.Pharmacy(Practice)	0	40
27	Gian Jyoti Group of Institutions, Shambhu Kalan, Patiala	Bachelor of Business Administration Bachelor in Computer Applications	30 30	60 60
28	Gujranwala Guru Nanak Institute of Management and Technology, Civil Lines, Ludhiana	B. Sc. (Fashion Technology) Bachelor in Computer Applications	0 60	30 90
29	Guru Teg Bahadur Institute of Management & Technology, Dakha, Ludhiana	Bachelor of Business Administration Post-Graduate Diploma in Computer Applications MBA	0 0 0	30 30 60
30	Global College of Engineering & Technology, Kahnpur Khui, Distt. Ropar	M.Sc. Physics	0	20
31	Global College of Pharmacy, Kahnpur Khui, Distt. Ropar	M.Sc. Chemistry	0	20
32	Institute of Technology & Future Management Trends, Mohali	Bachelor of Business Administration M.A. (Journalism and Mass Communication) Master of Tourism and Travel Management	0 0 60	30 30 120
33	KMS College of IT and Management, DASUYA	B. Sc. (Fashion Technology) B.Voc. (Agriculture)	0 0	60 30
34	Khalsa College of Management and Technology, Amritsar	Bachelor of Tourism and Travel Management B. Sc. (Fashion Technology)	0 0	30 30
35	Lyallpur Khalsa College of Engineering ,Cantt Road, Jalandhar	B.Tech. Computer Science Engineering	60	90
36	Modern Group of Colleges College of Management, Mukerian, Hoshiarpur	B. Sc. (Medical Lab Sciences) B. Sc. Honours (Agriculture) B. Sc. (Fashion Technology)	0 0 0	30 60 30
37	PCTE Group of Institutes Near Baddowal Cantt Ludhiana	B. Sc. Honours (Agriculture)	0	60
38	Punjab College of Technical Education, Jhande, Ludhiana	Bachelor of Business Administration Bachelor in Computer Applications Bachelor of Tourism and Travel Management	0 0 0	120 90 60
39	Punjab Business School, Sarkapra, PO Chunni Kalan, Fatehgarh Sahib	Post-Graduate Diploma in Computer Applications	0	30
40	Pyramid College of Business & Technology, Mehtan, Phagwara	Bachelor of Tourism and Travel Management	0	60

Sr. No.	College Name	Course Name	Previous Intake	Intake 2018-19
41	Quest College of Science & Technology, Jhanjeri, Mohali	Bachelor in Computer Applications Bachelor of Tourism and Travel Management M.Sc.(Computer Science)	60 0 0	90 30 30
42	Ramgarhia Institute of Management & Advance Studies, Phagwara	Bachelor of Hotel Management & Catering Technology M.Sc. (Math)	30 0	60 30
43	Rayat Bahra Institute of Management Bohan Hoshiarpur	B. Sc. Honours (Agriculture) B. Sc. (Fashion Technology)	0 0	30 60
44	Rayat Institute of Management, Railmajra	B. Sc. Honours (Agriculture) M.Sc. (Chemistry) M.Sc.(Computer Science) B. Voc (Hardware and Networking)	0 0 0 0	30 30 30 30
45	SBS State Technical Campus, Moga Road, Ferozepur	B. Sc. Honours (Agriculture) Post-Graduate Diploma in Computer Applications	0 0	30 30
46	Sri Guru RamDass College of Management & Technology college, Village Pandher, Amritsar	B. Sc. Honours (Agriculture)	0	30
47	Sri Sai Iqbal College of Management & Information Technology, Badhani	B. Sc. Honours (Agriculture)	0	30
48	Synetic Business School, Ludhiana	Master of Commerce Bachelor in Computer Applications	0 60	30 90
49	Sri Sukhmani Institute of Hospitality & Management, On Ambala chandigarh highway Derabassi	M. Sc. (Medical Lab Technology) B. Sc. (Medical Lab Sciences) Bachelor in Computer Applications	0 30 30	30 60 60
50	St. Soldier Institute of Hotel Management & Catering Technology, Jalandhar	Master of Hotel Management & Catering Technology	0	30
51	Tawi College, Shahpurkandi Tehsil Dharkalan Distt Pathankot.	B. Sc. Honours (Agriculture)	30	90
52	Vidya Jyoti Educational Society, Derabassi, Mohali	Master of Tourism and Travel Management M.Sc. (Animation & Multimedia Technology)	0 0	30 30

I.K.Gujral Punjab Technical University

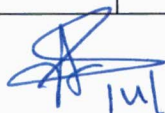
(Notification)

No. IKGPTU/Reg./ N/3663

Dated 14-09-18

The University is pleased to notify the college/institute for admission as mentioned below to make admission in the following courses with sanctioned intake mentioned for the session 2018-19:-

Sr. No.	College Name	Courses Name	Intake	Remarks
1	Amritsar College of Engineering & Technology, G.T. Road, Near Manawala, Amritsar	B.Voc. (Automobile Servicing) B.Voc. (Refrigeration & AC) B.Voc. (Software Development)	25 25 25	AICTE Approved courses
2	KMS College of IT & Mgt, Dasuya, Hoshiarpur	B.Voc. (Agriculture)	30	Non AICTE Course
3	Rayat Institute of Management, Railmajra, Nawanshahr	B.Voc (Hardware and Networking)	30	Non AICTE Course


(Dr. Sukhbir Singh Walia)
Registrar

Endst. No.: IKGPTU/Reg./ N/3664-3670

Dated: 14-09-18

A copy of the above is forwarded to the following for information and necessary action:-

1. Incharge Secretariat, O/o Vice Chancellor – For information of Hon'ble Vice Chancellor
2. Director Technical Education and Industrial Training, Punjab
3. Dean (Academics), IKGPTU.
4. Controller of Examination, IKGPTU.
5. Deputy Registrar (College Development) IKGPTU.
6. Finance Officer, IKGPTU
7. Deputy Controller (ITS) to upload on the website.


(Dr. Sukhbir Singh Walia)
Registrar

I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY

*Estd. Under Punjab Technical University Act, 1996
(Punjab Act No. 1 of 1997)*


Ref. No. : IKGPTU/Reg/N/2424

Dated : 31.07.2018

NOTIFICATION

Sub: **Regulation for B-Voc Courses.**

1. It is mandatory for all the institute to get the MOU signed with concerned sector skill council for starting the B-Voc courses. The institute has to submit the concerned MOU within one month to the University. In case of AICTE approved B-Voc courses the MOU considered by AICTE for approval may be considered by University. In case of AICTE approved B-Voc. programme, the syllabus approved by AICTE (for B-Voc courses) shall be implemented.
2. The tuition fees structure for B-Voc courses (both UGC & AICTE) shall be Rs. 25,000 (Tuition fee will be Rs. 25,000 per semester) and the rest of the fees including Admission Processing Fee, Examination Fee, SRF etc. shall be charged as per University norms applicable in regular courses.
3. The affiliation fees from the institutes shall be charged as per prevalent affiliation fee for UGC courses running in regular mode.
4. As these B-Voc courses are introduced for the first time by the University, All the concerned institutes shall deposit the University fees by 31st October, 2018. Colleges can withdraw B-Voc course up to 31st October, 2018.
5. Skill Development Board (SDB) shall be constituted in the University. The concerned SDB shall consist of 20 members including the nominees of Sector Skill council. Dean (Academics) shall be chairperson of the Board and the DR (Academics) shall be officiating Secretary of the Board.
6. The syllabus of the B-Voc courses shall be approved by the Skill Development Board (SDB) of the University. The Department of Academics will coordinate in the framing of syllabus and report to the SDB.
7. The eligibility of the B-Voc courses shall be as per UGC/AICTE. In case the UGC/AICTE is silent over eligibility then the eligibility will be 12th standard with passing marks.
8. The detailed guidelines are attached at Annexure-I.



(Dr. S.S. Walia)
Registrar

Endst. No. IKGPTU/Reg/N/2425-2429

Dated: 31.07.2018

A copy is forwarded to the following officers for information please.

1. I/c Secretariat, O/o Vice Chancellor: For information of Vice Chancellor
2. D1R (Academic), IKGPTU
3. Controller of Examination, IKGPTU
4. Deputy Registrar (College Development), IKGPTU
5. Deputy Controller (ITS): For uploading on website


(Dr. S.S. Walia)
Registrar

(Annexure-I)

Guidelines for Introduction of Bachelor of Vocation (B.Voc.) Programme in IKG-PTU, Jalandhar and Constituent Colleges under the National Skills Qualifications Framework (NSQF)

1. Introduction

It has been a long felt necessity to align higher education with the emerging needs of the Industry 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 produce holistic and well-groomed graduates.

The B.Voc. programme is focused on university and its colleges providing undergraduate studies which would also incorporate specific job roles and their NOSs along with broad based general education. This would enable the graduates completing B.Voc. to make a meaningful participation in accelerating India's economy by gaining appropriate employment, becoming entrepreneurs and creating appropriate knowledge.

2. Objectives

- 2.1 To provide judicious mix of skills relating to a profession and appropriate content of general education.
- 2.2 To ensure that the students have adequate knowledge and skills, so that they are work ready at each exit point of the programme.
- 2.3 To provide flexibility to students by means of pre-defined entry and multiple exit points.
- 2.4 To integrate NSQF within the undergraduate level of higher 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.
- 2.5 To provide vertical mobility to students coming out of (a) 10+2 with vocational subjects; and (b) Community Colleges.

3. Criteria for Selection of the Institution

- 3.1 The Primary criteria to run B. Voc. Will be MOU/ Tie-up/ Collaboration with concerned Sector Skill Council. It shall be made mandatory for all the institutes to get the MOU signed with concerned sector skill council for starting the B-Voc courses. In case of AICTE approved B-Voc courses the MOU considered by AICTE for approval may be considered by University. In case of AICTE approved B-Voc.

programmes, the syllabus approved by AICTE (for B-Voc courses) shall be implemented.

- 3.2 While selecting the institution under the scheme of B. Voc. Degree programme, preference will be given to such colleges which have proximity to the industry partner(s) or SKPs, address local job requirements and/or youth aspirations of the region.
- 3.3 Any institution will normally be given maximum of five courses under the scheme. However, after successful implementation of the scheme by the institution, the University may consider to approve additional courses to the institution.
- 3.4 The proposals will be invited on the university web portal or in the prescribed perform from the interested institutions by the University. The proposals will be placed before an Expert Committee for evaluation. If required, University may constitute a Screening Committee to shortlist the proposals. Based on the merit of the proposal, the Expert committee will recommend institutions under the scheme.
- 3.5 The institutes which have already got allocation of B. Voc. Courses from AICTE will also apply along with the AICTE approval.
- 3.6 The above condition (3.5) is not applicable for NON AICTE courses.

4. Governance, Coordination and Monitoring:

Constitution of Skill Development Board (SDB) in the University:

A Skill Development Board (SDB) will be constituted by the Vice-Chancellor with a term of three years. SDB shall be the authority to approve syllabus and scheme of the study for skill development courses offered in colleges in accordance with the rules laid down by concerned Sector Skill Council. The concerned SDB shall consist of 20 members including the nominees of Sector skill council. Dean (Academics) shall be the Chairperson of the Board and the DR (Academics) shall be the Member Secretary of the Board. The other members of the Board shall be proposed by the office of Dean, Academics in consultation with Board of Studies

The structure shall be as under:

- | | |
|--|--------------------|
| i. Dean (Academics), IKGPTU | - Chairman |
| ii. Director (College Development) | - Member |
| iii. Chairman of concerned BOS | - Member |
| iv. Controller of Examination | - Member |
| v. Finance Officer | - Member |
| vi. Nominee of Concerned Sector Skill Council | - Member |
| vii. Principals of Affiliated Colleges (06 Nos.) | - Member |
| viii. Experts from Industry | - Member |
| ix. DR-Academics | - Member Secretary |

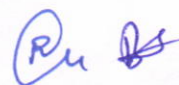
- 4.1 The syllabi and courses for the Bachelor of Vocation (B. Voc.) shall be as approved by the IKG-PTU, Jalandhar from time to time on the recommendations of the Board of studies and approved through SDB.
- 4.2 SDB may make recommendations to the IKG-PTU, Jalandhar in all matters concerning the Bachelor of Vocation (B. Voc.) programme including the rules and regulations, admission, evaluations, curriculum /syllabi and the appointment of experts/examiners. However, recommendations of SDB, concerning syllabi may be routed through the Academic Council.
- 4.3 SDB may invite any number of academic/ professional/ industry experts from different disciplines for monitoring and execution of the academic programmes.
- 4.4 Skill Development Board would meet at-least twice in a year.

Every institution running B.Voc degree programme will prepare a schedule of activities along with the timelines and send it to SDB. While the Principal of the concerned college will be responsible for time bound achievements of the milestones and quality standards laid by University and Sector Skill Council.

- 4.5 The B.Voc. programme will be evaluated and monitored by the university through SDB and by setting up an alternate mechanism, with involvement of industry representatives.
- 4.6 The Monitoring of the scheme will necessarily also look at the following areas:
 - a) Student intake proposed, students admitted, on rolls, drop outs and certificates – course wise.
 - b) Students placed – role / designation, organisation, starting salary, location etc.
 - c) Industry engagement: MoUs, guest lecturers invited, internship and on job training, workshop facilities provided on their premises / in the premise of institution, commitment on recruiting students, students actually recruited and their average salary, financial assistance provided to the college.
 - d) Curriculum alignment with industry requirements, National Occupational Standards and NSQF.
 - e) Lab / workshop facilities required and quality standards of Institution.
 - f) Extent of alignment with the needs of the local community.

5. Curricular Aspects and Levels of Awards

The institutions offering B.Voc degree courses will have to be in constant dialogue with the respective Sector Skill Council(s) so that they remain updated on the requirements of the workforce for the local economy. There will be essentially credit-based modular programmes, wherein banking of credits for skill and general education components will be permitted so as to enable multiple exit and entry. This would enable the learner to



seek employment after any level of Award and join back as and when feasible to upgrade her / his qualification / skill competency either to move higher in her / his job or in the higher educational system.

5.1 As the CBSE and many other school boards are initiating skill based vocational courses with certification at NSQF Level 4 for students completing 10+2, there may be three types of learners getting admission to first semester of B.Voc courses under NSQF:

Category – 1: Students who have already acquired NSQF certification Level 4 in a particular industry sector and opted for admission in the B.Voc degree courses under NSQF in same sector for which he / she was previously certified at school level.

Category – 2: Students who have acquired NSQF certification Level 4 but may like to change their sector and may enter in B.Voc course in a different sector.

Category – 3: Students who have passed 10+2 examination with conventional schooling without any background of vocational training.

The institutions will develop curriculum and arrange for skill intensive training / teaching for the learners belonging to the category-2 and 3 as above during the first six months who will be assessed and certified for NSQF Level 4 of skill competency by concerned SSC at the end of first semester. However, learners belonging to category-1 will not require such certification as they were already having NSQF level 4 certificates in same industry sector / job role required for specified skill credits.

All the learners continuing for Diploma courses or further will be treated at par from second semester onwards. Students may exit after six months with a Certificate (NSQF Level 4) or may continue for diploma or advanced diploma or B.Voc degree level course(s). An academic progression for the students in vocational stream is illustrated below:

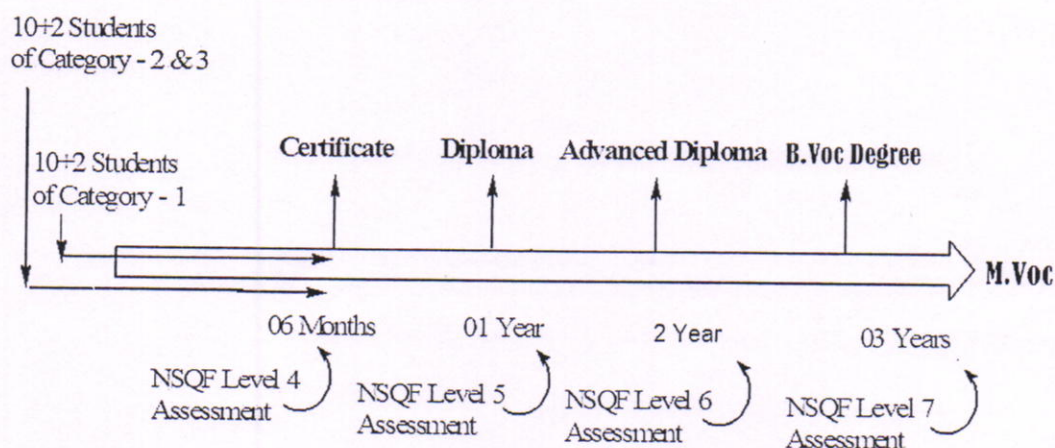


Fig. 1: Assessment of Skill Component under NSQF in Vocational Courses

As an illustration, awards could be given at each stage as per Table 1 below for cumulative credits awarded to the learners in skill based vocational courses. Each subject will carry 6 credits.

TABLE - 1

NSQF Level	Skill Component Credits	General Education Credits	Total Credits for Award	Normal Duration	Exit Points / Awards
4	18	12	30	One Sem.	Certificate
5	36	24	60	Two Sem.	Diploma
6	72	48	120	Four Sem.	Advanced Diploma
7	108	72	180	Six Sem.	B.Voc Degree

The NSQF Levels in above illustrations indicate that there should be at least one job role at the concerned NSQF Level in the curriculum to be assessed and certified for skill component. The normal training hours for skilling should be proportionate to the weightage for skill credits and an appropriate component of skill training may be imparted as on-site training at actual work place.

The candidates who have acquired vocational Certificate / Diploma or Advanced Diploma from University Recognized Colleges / B.Voc institutions in a specific sector with certified skills on a particular job role will be eligible for admission through lateral entry to next higher level on same sector.

- 5.2 The curriculum in each of the years of the programme would be a suitable mix of general education and skill development components. As is evident from Table 2 above, the General Education Component shall have 40 % of the total credits and balance 60% credits will be of Skill Component. The Curriculum details should be finalized before introduction of the courses.

The medium of instruction and examination shall be English.

General Education Component:

- (i) The general education component should adhere to the normal university standards. It should emphasis and offer courses which provide holistic development.




- (ii) The general education component of the curriculum will be decided by the Board of Studies of the concerned University/Autonomous College. This may also include the course(s) which are supportive to core trade in addition to soft skills, IT skills, and language proficiency and literature.
- (iii) The general education component of the curriculum will be same for all the B. Voc. Programmes in a semester to have coherence in all the Programmes.

Skill Development Components:

- (i) Skill component of the programmes/courses shall be employment oriented. The B.Voc institutions shall offer programmes/courses in domain areas which have significant demand in the job market. The institutions, in consultation with the industry partner(s) and based upon skills Gap analysis report published by the NSDC, industry associations, Sector Skills Councils, Government agencies *etc*, may decide specific Job Role(s) to be embedded in curriculum. The exit profiles of the learners at different levels *i.e.* Certificate / Diploma / Advanced Diploma should be clearly defined in output terms
- (ii) The curriculum should necessarily be aligned to Qualification Packs (QPs) / National Occupational Standards (NOSs) of selected job role(s) within the industry sector(s). This would enable the students to meet the learning outcomes specified in the NOSs.
- (iii) The curricula and system of certification for the skill component should be as per the National Occupational Standards defined by respective Sector Skills Council(s).
- (iv) For skills component, the model curriculum developed by the concerned Sector Skill Councils wherever available may be adopted or adapted in consultation with the industry partners. Wherever the curriculum is not available, the same may be developed in consultation with the relevant Sector Skill Councils and industry partners. While doing so, they may work towards aligning the curriculum with the National Occupational Standards being developed by the respective/allied Sector Skill Councils. This would promote national and global mobility of the learners, as well as higher acceptability by the industry for employment purposes.
- (v) The overall design of the skill development component along with the job roles selected should be such that it leads to a comprehensive specialization in one or two domains.
- (vi) In case NOS is not available for a specific area / job role, the college should get the curriculum for this developed in consultation with industry experts.
- (vii) The curriculum should also focus on work-readiness in terms of skills in each of the three years.



(viii) Adequate attention needs to be given in curriculum design to practical work, on the job training, development of student portfolios and project work.

5.3 The practical / hands-on portion of the skills component of the curriculum shall be transacted in face to face mode. The skill component of these programmes will conform to the QPs/NOSs and the general education component will conform to the university norms.

5.4 The curriculum should be designed in a manner that at the end of year-1, year-2 and year-3, students are able to meet below mentioned level descriptors for level 5, 6 and 7 of NSQF, respectively:

Level	Process required	Professional knowledge	Professional skill	Core skill	Responsibility
Level 5	Job that requires well developed skill, with clear choice of procedures in familiar context	Knowledge of facts, principles, processes and general concepts, in a field of work or study	A range of cognitive and practical skills required to accomplish tasks and solve problems by selecting and applying basic methods, tools materials and information	Desired mathematical skill, understanding of social, political and some skill of collecting and organizing information, communication	Responsibility for own work and learning and some responsibility for other's works and learning
Level 6	Demands wide range of specialized technical skill, clarity of knowledge and practice in broad range of activity involving standard / non-standard practices	Factual and theoretical knowledge in broad contexts within a field of work or study	A range of cognitive and practical skills required to generate solutions to specific problems in a field of work or study	Reasonably good in mathematical calculation, understanding of social, political and, reasonably good in data collecting organizing information, and logical communication	Responsibility for own work and learning and full responsibility for other's works and learning

Level 7	Requires a command of wide ranging specialized theoretical and practical skill, involving variable routine and non-routine context	Wide ranging, factual and theoretical knowledge in broad contexts within a field of work or study	Wide range of cognitive and practical skills required to generate solutions to specific problems in a field of work or study	Good logical and mathematical skill understanding of social political and natural environment good in collecting and organizing information, communication and presentation skill	Full responsibility for output of group and development
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Professional knowledge is what a learner should know and understand with reference to the subject; **Professional skills** are what a learner should be able to do and, **Core skills** refer to basic skills involving dexterity and use of methods, materials, tools and instruments used to perform the job including IT skills needed for that job. **Responsibility aspect** determines the (i) nature of working relationship, (ii) level of responsibility for self and others, (iii) managing change and (iv) accountability for actions.

- 5.5 The institutions may also provide for Recognition of Prior Learning (RPL) framework for job roles at NSQF Level 4 onwards by conducting assessment and certification through respective SSC(s) / Directorate General of Employment and Training (DGET).
- 5.6 Relevance of programmes offered, along with that of the curriculum is important. Therefore, monitoring, evaluation and updating of the curriculum needs to be done periodically in consultation with all stake holders, particularly the industries and SSCs keeping in view their requirements and changes in NOSs. The approved institutions under B.Voc degree programme shall incorporate this as a continuous and dynamic process, in-built in their system.
- 5.7 The B.Voc degree programme is a full time degree course. It should not be conducted as an add-on programme.
- 5.8 The institutions may like to appropriately use technology to improve the effectiveness of the delivery of courses.
- 5.9 The Institute must appoint Skill Committee at institute level to keep quality and standards as per SSC requirements




6. Duration:

- 6.1 The duration of course leading to the degree of **Bachelor of Vocation** (B. Voc.) shall be three academic years (6 semesters). The examination for the first semester shall ordinarily be held in the month of December and for the second in the month of June or such dates as may be fixed by the IKG-PTU, Jalandhar Authorities from time to time. Assessment and evaluation system for the B. Voc. should be a credit based system.
- 6.2 If a candidate wishes to leave the course after successful completion of the first year, he/she will be offered Diploma of Vocation in that particular stream.
- 6.3 If the candidate wishes to leave after successful completion of the second year, he/she will be offered Advanced Diploma of Vocation in that particular stream.

7. Assessment:

- 7.1 The Skill component of the course will be assessed and certified by the respective Sector Skill Councils. In case, there is no Sector Skill Council for a specific trade, the assessment may be done by an allied Sector Council, SKP or the Industry partner. Wherever the university/college may deem fit, it may issue a joint certificate for the course(s) with the respective Sector Skill Council(s).
- 7.2 The credits for the skill component will be awarded in terms of NSQF level certification which will have 60% weightage of total credits of the course in following manner.

Name of the Course	NSQF Level Certificate	Cumulative Credits
Certificate	Level – 4	18 credits
Diploma	Level – 5	36 credits
Advance Diploma	Level – 6	72 credits
B.Voc. Degree	Level – 7	108 credits

- 7.3 The general education component will be assessed by the university as per the prevailing standards and procedures. The following formula may be used for the credit calculation in general education component of the courses:
- a) General Education credit refers to a unit by which the course work is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of teaching (lecture or tutorial) or two hours of practical work/field work per week. Accordingly, one Credit would mean equivalent of 14-15 periods of 60 minutes each or 28 – 30 hrs of workshops / labs.
- b) For internship / field work, the credit weightage for equivalent hours shall be 50% of that for lectures / tutorials.



- c) For self-learning, based on e-content or otherwise, the credit weightage for equivalent hours of study shall be 50% of that for lectures / tutorials.

8. Examinations:

- 8.1 The last date for uploading of admission on Online Portal will be notified by IKG-PTU, Jalandhar.
- 8.2 The last date for filling online examination form on university portal with and without late fee shall be as fixed by the IKG-PTU, Jalandhar from time to time.
- 8.3 First semester examination shall be open to a regular student who has been on the rolls of the affiliated college during one semester preceding the first semester examination; and has attended not less than 75% of the lectures, seminars, case discussions, field trips, project work etc., in each paper; a deficiency up to 10% may be condoned by the principal of the affiliated college.
- 8.4 Second, third, fourth, fourth, fifth or sixth semester examinations shall be open to a student who has been on the rolls of the affiliated college during one semester preceding the second, third fourth fifth or sixth semester examination, as the case may be has attended not less than 75% of the lectures, seminars, case discussions, field trips, project work etc., in each paper; a deficiency up to 10% may be condoned by the principal of the affiliated college has passed the first, second, third, fourth, fifth semester examinations respectively or is covered under re-appear regulation.

9. Passing Criteria

- 9.1 The minimum number of marks to pass the examination in each semester shall be-

Generic Component

- (i) 40% in each paper in the University examination separately as well as jointly with internal assessment,
- (ii) 40% in seminar, project, viva voce, field work etc.
- (iii) 40% in the aggregate of (i) and (ii) above.

Skill Sector Component

- (i) As per the passing criteria of the concerned Sector Skill Council.

- 9.2 Grace marks shall be given @ 1% of the aggregate marks of the external examination of the University for each semester (only the marks of external examination will be counted for the purpose of calculating the grace marks and



marks obtained in the internal assessment will not be counted). A candidate may avail of the grace marks either in the aggregate or in one or more papers as may be to his/her advantage. Grace marks, shall, however, be given only for passing the examination or for earning the higher division and not for passing the examination with distinction as well as position.

- 9.3 The award of "Diploma" / 'Advanced Diploma' / Degree to the successful learners in both skills and general education components of the curriculum may be done as illustrated at Table 1.
- 9.4 The institutions offering B.Voc degree programme should adopt and integrate the guidelines and recommendations of the respective Sector Skill Councils (SSCs) for the assessment and evaluation of the vocational component, wherever available.
- 9.5 Letter Grades and Grade Points: A 10-point grading system with the following Letter grades as given below:

Table 2: Grades and Grade Points

Letter Grade	Grade Point
O (Outstanding)	10
A+ (Excellent)	9
A (Very Good)	8
B+ (Good)	7
B (Above Average)	6
C (Average)	5
P (Pass)	4
F (Fail)	0
Ab (Absent)	0

A student obtaining Grade F shall be considered failed and will be required to reappear in the examination.

- 9.6 Computation of SGPA and CGPA: Following procedure to compute the Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA) may be adopted:
- a) The SGPA is the ratio of sum of the product of the number of credits with the grade points scored by a student in all the course components taken by a student and the sum of the number of credits of all the courses undergone by a student in a semester, i.e

$$\text{SGPA (Si)} = \Sigma(C_i \times G_i) / \Sigma C_i$$

where 'C_i' is the number of credits of the ith course component and 'G_i' is the grade point scored by the student in the ith course component.

- b) The CGPA is also calculated in the same manner taking into account all the courses undergone by a student over all the semesters of a programme, *i.e.*

$$\text{CGPA} = \frac{\sum(C_i \times S_i)}{\sum C_i}$$

where 'S_i' is the SGPA of the ith semester and C_i is the total number of credits in that semester.

- c) The SGPA and CGPA shall be rounded off to 2 decimal points and reported in the transcripts.

10. Certification of Awards:

10.1 Award of B.Voc degree or Advanced Diploma / Diploma as the case may be, would depend on acquisition of requisite credits as prescribed in the guidelines and not on the duration of the calendar time spent in pursuing the course.

10.2 The certificate for skilling component would be awarded by the Sector Skill Council in terms of NSQF level either singly or jointly with the institution concerned and the general education grades will be certified along with the skill component in terms of certificate/ diploma awarded by the institution.

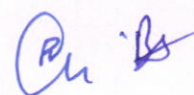
10.3 UGC guidelines on Choice Based Credit System (CBCS), and Guidelines on Curricular Aspects, Assessment Criteria and Credit System in Skill based Vocational Courses may be referred for further illustration on computation of SGPA, CGPA *etc.* to confer the awards as above.

10.4 Each of the awards shall specify within parenthesis, the Skill(s)

specialization, such as:

- B. Voc. (Renewably Energy Management)
- B. Voc. (Retail Management)
- B.Voc. (Retail Management and IT)
- Advanced Diploma (Food Processing)
- Advanced Diploma (Health Care)
- Advanced Diploma (Hospitality and Tourism)
- Diploma (Green House Technology)
- Diploma (BPO)
- Diploma (Jewellery Designing)

10.5 The students will have the option to exit with a Certificate, Diploma or Advanced Diploma after acquiring requisite no of credits. In case of affiliated colleges, such students may be awarded Certificate, Diploma or Advanced Diploma, as the case may be by the concerned College after a written authorization by the affiliating University.



11. Infrastructure and Faculty for B.Voc. programme

- 11.1 University/college needs to have 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 or any institution recognized by the certification agency or Sector Skill Council.
- 11.2 The university/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 in the core trades only as per norms and also guest/ visiting/ part time adjunct faculty from either the industry or open market or NSDC approved training partners for imparting skills.
- 11.3 The university/college should get its regular faculty certified as trainer from the Sector Skill Council within one year of start of the course.

12. Admissions and Fee Criteria

- 12.1 The minimum educational qualification for admission into B.Voc degree course will be class XII pass or equivalent in relevant field from any recognized board or university as specified by each Sector Skill Councils in case of Non AICTE trades, whereas for AICTE Trades the eligibility norms will be as per AICTE Website/ notification.
- 12.2 Equal weightage, at par with other subjects, should be given to vocational subjects at +2 level while considering the students for admission into B.Voc. programmes in the concerned trade.
- 12.3 While deciding criteria for admission into any particular trade, the institutions will consider students having background in relevant stream at 10+2 level. For admission to the skill based vocational courses, preference may be given to the learners living in the local community. Reservation to SC, ST, OBC and other categories will be available as per the extant national / State policy. There shall be no age bar for admission in such courses.
- 12.4 Admissions to be done once a year (summer session), to facilitate a steady stream of learners joining the college and moving out as trained work force to the job market. However, it can be extended twice in a year by the approval of SDB at later stage.
- 12.5 The applicants seeking re-entry into the education and training for further advanced learnings in their field of expertise in particular trade should get preference in admission over the new applicants.
- 12.6 Student fee should be decided as per the prevalent mechanism for fee fixation in the university/college. The tuition fees structure for B-Voc courses (both UGC & AICTE) shall be Rs. 25000 (Tuition fee will be Rs. 25,000/- per semester) and the



rest of the fees including Admission Processing Fee, Examination Fee, SRF etc. shall be charged as per University norms applicable in regular courses.

12.7 Students counselling should be an integral part of the admission process. Parents should also be involved appropriately.

12.8 The affiliation fee from the institutes shall be charged as per prevalent affiliation fee for UGC Course running in regular mode.

12.9 The eligibility of the B-Voc courses shall be as per UGC/ AICTE. In case the UGC/ AICTE is silent over eligibility then the eligibility will be 12th standard with passing marks.

Institute	Branch	Priveious Seats	Current Seats
I.K. Gujral Punjab Technical University Main Campus, Kapurthala			
I.K. Gujral Punjab Technical University Main Campus, Kapurthala	Bachelor of Design	Nil	60
I.K. Gujral Punjab Technical University Main Campus, Kapurthala	B.Planning	40	Closed
I.K. Gujral Punjab Technical University Main Campus, Kapurthala	M.Architecture	20	Closed
I.K. Gujral Punjab Technical University Main Campus, Kapurthala (CR)	Master of Science (Clinical Research)	Nil	10
I.K. Gujral Punjab Technical University Main Campus, Kapurthala (Chem)	Master of Science (Chemistry)	25	25
I.K. Gujral Punjab Technical University Main Campus, Kapurthala (Civil)	B.Tech. (Civil Engineering)	45	60
I.K. Gujral Punjab Technical University Main Campus, Kapurthala (Civil)	B.Tech. (Civil Engineering) - Lateral Entry	Nil	38
I.K. Gujral Punjab Technical University Main Campus, Kapurthala (Civil)	M.Tech. (Civil Engineering) (Specialization Structural Engineering)	Nil	20
I.K. Gujral Punjab Technical University Main Campus, Kapurthala (CSE)	B.Tech. (Computer Science & Engineering)	45	60
I.K. Gujral Punjab Technical University Main Campus, Kapurthala (CSE)	B.Tech. (Computer Science & Engineering) - Lateral Entry	Nil	11
I.K. Gujral Punjab Technical University Main Campus, Kapurthala (CSE)	M.Tech. (Computer Science & Engineering)	25	25
I.K. Gujral Punjab Technical University Main Campus, Kapurthala (ECE)	B.Tech. (Electronics & Communication Engineering)	45	60
I.K. Gujral Punjab Technical University Main Campus, Kapurthala (ECE)	B.Tech. (Electronics & Communication Engineering) - Lateral Entry	Nil	39
I.K. Gujral Punjab Technical University Main Campus, Kapurthala (ECE)	M.Tech. (Electronics & Communication Engineering) (Wireless Communication Engineering)	25	25
I.K. Gujral Punjab Technical University Main Campus, Kapurthala (Elect)	B.Tech. (Electrical Engineering)	45	60
I.K. Gujral Punjab Technical University Main Campus, Kapurthala (Elect)	B.Tech. (Electrical Engineering) - Lateral Entry	Nil	35
I.K. Gujral Punjab Technical University Main Campus, Kapurthala (Elect)	M.Tech. (Electrical Engineering) Power System	25	25

Institute	Branch	Priveious Seats	Current Seats
I.K. Gujral Punjab Technical University Main Campus, Kapurthala (Food)	M.Tech. (Food Technology)	Nil	18
I.K. Gujral Punjab Technical University Main Campus, Kapurthala (Food)	Master of Science (Food Science & Technology)	25	25
I.K. Gujral Punjab Technical University Main Campus, Kapurthala (JMC)	M.Phill. (Journalism & Mass Communication)	Nil	10
I.K. Gujral Punjab Technical University Main Campus, Kapurthala (JMC)	Master of Arts (Journalism and Mass Communication)	25	25
I.K. Gujral Punjab Technical University Main Campus, Kapurthala (Math)	Master of Science (Mathematics)	25	25
I.K. Gujral Punjab Technical University Main Campus, Kapurthala (Mgmt)	Bachelor of Business Administration	Nil	45
I.K. Gujral Punjab Technical University Main Campus, Kapurthala (Mgmt)	Master of Business Administration	60	60
I.K. Gujral Punjab Technical University Main Campus, Kapurthala (Mech)	B.Tech. (Mechanical Engineering)	45	60
I.K. Gujral Punjab Technical University Main Campus, Kapurthala (Mech)	B.Tech. (Mechanical Engineering) - Lateral Entry	Nil	27
I.K. Gujral Punjab Technical University Main Campus, Kapurthala (Mech)	M.Tech. (Mechanical Engineering)	25	25
I.K. Gujral Punjab Technical University Main Campus, Kapurthala (Phys)	Master of Science (Physics)	25	25

Constituent Campus of IKGPTU

I.K. Gujral Punjab Technical University Campus, Amritsar	B.Tech. (Computer Science & Engineering)	Nil	60
I.K. Gujral Punjab Technical University Campus, Amritsar	B.Tech. (Computer Science & Engineering) - Lateral Entry	Nil	40
I.K. Gujral Punjab Technical University Campus, Amritsar	Bachelor of Computer Applications	Nil	60
I.K. Gujral Punjab Technical University Campus, Batala	B.Tech. Civil Engineering	40	60
I.K. Gujral Punjab Technical University Campus, Batala	B.Tech. Civil Engineering (LE)	60	8
I.K. Gujral Punjab Technical University Campus, Batala	B.Tech. Electrical Engineering	40	60
I.K. Gujral Punjab Technical University Campus, Batala	B.Tech. Electrical Engineering (LE)	60	8
I.K. Gujral Punjab Technical University Campus, Batala	B.Tech. Mechanical Engineering	40	60
I.K. Gujral Punjab Technical University Campus, Batala	B.Tech. Mechanical Engineering (LE)	60	8

Institute	Branch	Priveious Seats	Current Seats
I.K. Gujral Punjab Technical University Campus, Bhikiwind	B.Tech. Computer Science & Engineering	40	Nil
I.K. Gujral Punjab Technical University Campus, Bhikiwind	B.Tech. Computer Science & Engineering (LE)	60	8
I.K. Gujral Punjab Technical University Campus, Bhikiwind	B.Tech. Mechanical Engineering	40	Nil
I.K. Gujral Punjab Technical University Campus, Bhikiwind	B.Tech. Mechanical Engineering (LE)	60	8
I.K. Gujral Punjab Technical University Campus, Dinanagar	B.Tech. Computer Science & Engineering	40	60
I.K. Gujral Punjab Technical University Campus, Dinanagar	B.Tech. Computer Science & Engineering (LE)	60	Nil
I.K. Gujral Punjab Technical University Campus, Dinanagar	Bachelor in Computer Applications	60	60
I.K. Gujral Punjab Technical University Campus, Hoshiarpur	B.Tech. Civil Engineering (LE)	60	60
I.K. Gujral Punjab Technical University Campus, Hoshiarpur	B.Tech. Computer Science & Engineering (LE)	60	60
I.K. Gujral Punjab Technical University Campus, Hoshiarpur	B.Tech. Mechanical Engineering (LE)	60	60
I.K. Gujral Punjab Technical University Campus, Khunimajra	B.Architecture	30	30
I.K. Gujral Punjab Technical University Campus, Khunimajra	M.Arch. (Arch Education & Research)	20	20
I.K. Gujral Punjab Technical University Campus, Khunimajra	M.Arch. (Built Environment)	20	Closed
I.K. Gujral Punjab Technical University Campus, Khunimajra	B.Tech. Computer Science & Enggneering	Nil	60
I.K. Gujral Punjab Technical University Campus, Khunimajra	Bachelor of Business Administration	Nil	60
I.K. Gujral Punjab Technical University Campus, Mohali	B.Tech. Computer Science & Enggneering	Nil	60
I.K. Gujral Punjab Technical University Campus, Mohali	Certificate Courses in IELTS & Foreign Languages		From This Year
I.K. Gujral Punjab Technical University Campus, Sultanpur Lodhi	Bachelor of Business Administration	Nil	60
I.K. Gujral Punjab Technical University Campus, Sultanpur Lodhi	Bachelor of Computer Applications	Nil	60
I.K. Gujral Punjab Technical University Campus, Sultanpur Lodhi	Bachelor of Science (Information Technology)	Nil	60
I.K. Gujral Punjab Technical University Campus, Sultanpur Lodhi	Master of Computer Application	Nil	30



I. K. Gujral Punjab Technical University, Jalandhar

Eligibility Criteria for UGC (Non-AICTE) Courses for Academic Session 2018-19

Sr. No.	Course Nomenclature		Course Duration	Eligibility Criteria	Based on Merit in the order
	Abbreviated	Expanded			
1.	B.A. (JAMC)	Bachelor of Arts (Journalism and Mass Communication)	3 Years / 6 Semesters	<p>All those candidates who have passed the 10+2 or its equivalent examination in any stream conducted by a recognized Board / University / Council.</p> <p>OR</p> <p>Those candidates who have passed their Matriculation examination AND have also passed three year Diploma in any Trade from Punjab State Board of Technical Education & Industrial Training, Chandigarh or such Examination from any other recognized State Board of Technical Education, or Sant Longowal Institute of Engineering & Technology, Longowal.</p>	Inter-se-merit in qualifying examination.
2.	B.Com. (E-Com.)	Bachelor of Commerce (E-Commerce)	3 Years / 6 Semesters	<p>Having passed at least +2 examination of Punjab School Education Board or any other examination recognized as equivalent thereto with at least: 33% marks in the aggregate in case of commerce students who have passed 10+2 examination</p> <p>OR</p> <p>40% for the students who have opted for two of the following commerce subjects in 10+2 (a) Accountancy (b) Business Studies (c) Economics (d) Mathematics (e) Office Management and Secretarial Practice (f) Principle and Practice of Insurance (g) Tax Procedure and Practice.</p> <p>OR</p> <p>45% for other candidates.</p>	Inter-se-merit in qualifying examination.
3.	B.Com. (Hons)	Bachelor of Commerce (Honours)	3 Years / 6 Semesters	<p>Having passed at least +2 examination of Punjab School Education Board or any other examination recognized as equivalent thereto with at least: 33% marks in the aggregate in case of commerce students who have passed 10+2 examination</p> <p>OR</p> <p>40% for the students who have opted for two of the following commerce subjects in 10+2 (a) Accountancy (b) Business Studies (c) Economics (d) Mathematics (e) Office Management and Secretarial Practice (f) Principle and Practice of Insurance (g) Tax Procedure and Practice.</p> <p>OR</p> <p>45% for other candidates.</p>	Inter-se-merit in qualifying examination.
4.	B.Sc. (AMT)	Bachelor of Science (Animation & Multimedia Technology)	3 Years / 6 Semesters	<p>All those candidates who have passed the 10+2 or its equivalent examination in any stream conducted by a recognized Board / University / Council.</p> <p>OR</p> <p>Those candidates who have passed their Matriculation examination AND have also passed three year Diploma in any Trade from Punjab State Board of Technical Education & Industrial Training, Chandigarh or such Examination from any other recognized State Board of Technical Education, or Sant Longowal Institute of Engineering & Technology, Longowal.</p>	Inter-se-merit in qualifying examination.



I. K. Gujral Punjab Technical University, Jalandhar

Eligibility Criteria for UGC (Non-AICTE) Courses for Academic Session 2018-19

Sr. No.	Course Nomenclature		Course Duration	Eligibility Criteria	Based on Merit in the order
	Abbreviated	Expanded			
5.	B.Sc. (Bio-Tech.)	Bachelor of Science (Bio-Technology)	3 Years / 6 Semesters	<p>All those candidates who have passed the 10+2 with Physics & Chemistry as compulsory subjects and either Mathematics or Biology conducted by a recognized Board / University / Council.</p> <p>OR</p> <p>Those candidates who have passed their Matriculation examination AND have also passed three year Diploma in any Trade from Punjab State Board of Technical Education & Industrial Training, Chandigarh or such Examination from any other recognized State Board of Technical Education, or Sant Longowal Institute of Engineering & Technology, Longowal.</p>	Inter-se-merit in qualifying examination.
6.	B.Sc. (Catering & Culinary Arts)	Bachelor of Science (Catering & Culinary Arts)	3 Years / 6 Semesters	<p>All those candidates who have passed the 10+2 or its equivalent examination in any stream conducted by a recognized Board / University / Council.</p>	Inter-se-merit in qualifying examination.
7.	B.Sc. (Computer Science)	Bachelor of Science (Computer Science)	3 Years / 6 Semesters	<p>All those candidates who have passed 10+2 in Non-Medical or its equivalent examination in Non-Medical conducted by a recognized Board / University / Council.</p> <p>OR</p> <p>Those candidates who have passed three year Diploma in CSE / IT from Punjab State Board of Technical Education & Industrial Training, Chandigarh or equivalent.</p>	Inter-se-merit in qualifying examination.
8.	B.Sc. (Fashion Design Knits)	Bachelor of Science (Fashion Design Knits)	3 Years / 6 Semesters	<p>All those candidates who have passed the 10+2 or its equivalent examination in any stream conducted by a recognized Board / University / Council.</p> <p>OR</p> <p>General Certificate Education (GCE) Examination (London/ Cambridge/ Sri-Lanka) at the Advanced (A) level.</p> <p>OR</p> <p>A pass grade in the Senior Secondary School Examination conducted by the National Open School with a minimum of five subjects</p> <p>OR</p> <p>Candidates who have passed 3 or 4 years diploma recognised by AICTE or a State Board of Technical Education.</p>	Inter-se-merit in qualifying examination.
9.	B.Sc. (Fashion Design)	Bachelor of Science (Fashion Design)	3 Years / 6 Semesters	<p>All those candidates who have passed the 10+2 or its equivalent examination in any stream conducted by a recognized Board / University / Council.</p> <p>OR</p> <p>General Certificate Education (GCE) Examination (London/ Cambridge/ Sri-Lanka) at the Advanced (A) level.</p> <p>OR</p> <p>A pass grade in the Senior Secondary School Examination conducted by the National Open School with a minimum of five subjects</p>	Inter-se-merit in qualifying examination.



I. K. Gujral Punjab Technical University, Jalandhar

Eligibility Criteria for UGC (Non-AICTE) Courses for Academic Session 2018-19

Sr. No.	Course Nomenclature		Course Duration	Eligibility Criteria	Based on Merit in the order
	Abbreviated	Expanded			
				<p>OR</p> <p>Candidates who have passed 3 or 4 years diploma recognised by AICTE or a State Board of Technical Education.</p>	
10.	B.Sc. (Fashion Technology)	Bachelor of Science (Fashion Technology)	3 Years / 6 Semesters	All those candidates who have passed the 10+2 or its equivalent examination in any stream conducted by a recognized Board / University / Council.	Inter-se-merit in qualifying examination.
11.	B.Sc. (Fashion Technology) (Lateral Entry)	Bachelor of Science (Fashion Technology) (Lateral Entry)	2 Years / 4 Semesters	All those candidates who have passed Matriculation examination AND have also passed 3 Year Diploma in any Trade from Punjab State Board of Technical Education & Industrial Training, Chandigarh or such Examination from any other recognized State Board of Technical Education, or Sant Longowal Institute of Engineering & Technology, Longowal.	Inter-se-merit in qualifying examination.
12.	B.Sc. (Food Technology)	Bachelor of Science (Food Technology)	3 Years / 6 Semesters	All those candidate who have passed 10+2 examination in Medical or Non-Medical Stream conducted by a recognized Board / University / Council.	Inter-se-merit in qualifying examination.
13.	B.Sc. (IT)	Bachelor of Science (Information Technology)	3 Years / 6 Semesters	<p>All those candidates who have passed the 10+2 or its equivalent examination in any stream conducted by a recognized Board / University / Council.</p> <p>OR</p> <p>Those candidates who have passed their Matriculation examination AND have also passed three year Diploma in any Trade from Punjab State Board of Technical Education & Industrial Training, Chandigarh or such Examination from any other recognized State Board of Technical Education, or Sant Longowal Institute of Engineering & Technology, Longowal.</p>	Inter-se-merit in qualifying examination.
14.	B.Sc. (IT) (Lateral Entry)	Bachelor of Science (Information Technology) (Lateral Entry)	2 Years / 4 Semesters	<p>All those candidates who have passed Matriculation examination AND have also passed 3 Year Diploma in any Trade from Punjab State Board of Technical Education & Industrial Training, Chandigarh or such Examination from any other recognized State Board of Technical Education, or Sant Longowal Institute of Engineering & Technology, Longowal.</p> <p>OR</p> <p>10+2 with 1 year Diploma in Computer Application / IT (or equivalent) from a recognized University with Mathematics as course at 10+2 or DIT / DCA level.</p>	Inter-se-merit in qualifying examination.
15.	B.Sc. (MLS) (Lateral Entry)	Bachelor of Science (Medical Lab Sciences) (Lateral Entry)	2 Years / 4 Semesters	Those candidates who have passed Diploma in Medical Laboratory Technology or Medical Laboratory Science or Pharmacy from recognised Punjab State Board of Technical Education & Industrial Training, Chandigarh or such Examination from any other recognised State Board of Technical Education with at least 50% marks (45% marks in case of candidate belonging to Reserved Category) in aggregate.	Inter-se-merit in qualifying examination.
16.	B.Sc. (MLS) 1 st Year	Bachelor of Science (Medical Lab Sciences) 1 st Year	3 Years / 6 Semesters	All those candidates who have passed the 10+2 with Physics & Chemistry as compulsory subjects and either Mathematics or Biology from recognized Board / University / Council or 10+2 with vocational course in Medical Laboratory Science / Medical Laboratory	Inter-se-merit in qualifying examination.



I. K. Gujral Punjab Technical University, Jalandhar

Eligibility Criteria for UGC (Non-AICTE) Courses for Academic Session 2018-19

Sr. No.	Course Nomenclature		Course Duration	Eligibility Criteria	Based on Merit in the order
	Abbreviated	Expanded			
				Technology with at least 50% marks (45% marks in case of candidate belonging to Reserved Category) in aggregate.	
17.	B.Sc. (Mobile Computing and Internet)	Bachelor of Science (Mobile Computing and Internet)	3 Years / 6 Semesters	All those candidates who have passed the 10+2 or its equivalent examination in any stream conducted by a recognized Board / University / Council.	Inter-se-merit in qualifying examination.
18.	B.Sc. (Non-Medical)	Bachelor of Science (Non-Medical)	3 Years / 6 Semesters	All those candidates who have passed 10+2 or equivalent examination in Science Stream with Physics, Chemistry & Mathematics with atleast 50% Marks (45% marks in case of candidate belonging to Reserved Category) in aggregate from any Board recognised or established by Central/State Government through a legislation.	Inter-se-merit in qualifying examination.
19.	B.Sc. (Textile Design)	Bachelor of Science (Textile Design)	3 Years / 6 Semesters	All those candidates who have passed the 10+2 or its equivalent examination in any stream conducted by a recognized Board / University / Council. OR General Certificate Education (GCE) Examination (London/ Cambridge/ Sri-Lanka) at the Advanced (A) level. OR A pass grade in the Senior Secondary School Examination conducted by the National Open School with a minimum of five subjects OR All those candidates who have passed 3 or 4 years diploma recognised by AICTE or a State Board of Technical Education.	Inter-se-merit in qualifying examination.
20.	B.Sc. Honours (Agriculture)	Bachelor of Science - Honours (Agriculture)	4 Years / 8 Semesters	All those candidates who have passed 10+2 or equivalent examination in Science/Agriculture with Physics, Chemistry and Mathematics/Biology/Agriculture with atleast 50% Marks (45% marks in case of candidate belonging to Reserved Category) in aggregate from any Board recognised or established by Central/State Government through a legislation.	Inter-se-merit in qualifying examination.
21.	B.Sc. Honours (Aircraft Maintenance)	Bachelor of Science- Honours (Aircraft Maintenance)	3 Years / 6 Semesters	All those candidates who have passed 10+2 or equivalent examination in Science Stream with atleast 50% Marks (45% marks in case of candidate belonging to Reserved Category) in aggregate from any Board recognised or established by Central/State Government through a legislation.	Inter-se-merit in qualifying examination.
22.	B.Sc. Honours (Nutrition and Dietics)	Bachelor of Science - Honours (Nutrition and Dietics)	4 Years / 8 Semesters	All those candidates who have passed the 10+2 with Science (Medical / Non-Medical) or its equivalent examination in any stream conducted by a recognized Board / University / Council.	Inter-se-merit in qualifying examination.
23.	BBA	Bachelor of Business Administration	3 Years / 6 Semesters	All those candidates who have passed the 10+2 or its equivalent examination in any stream conducted by a recognized Board / University / Council. OR	Inter-se-merit in qualifying examination.



I. K. Gujral Punjab Technical University, Jalandhar

Eligibility Criteria for UGC (Non-AICTE) Courses for Academic Session 2018-19

Sr. No.	Course Nomenclature		Course Duration	Eligibility Criteria	Based on Merit in the order
	Abbreviated	Expanded			
				Those candidates who have passed their Matriculation examination AND have also passed three year Diploma in any Trade from Punjab State Board of Technical Education & Industrial Training, Chandigarh or such Examination from any other recognized State Board of Technical Education, or Sant Longowal Institute of Engineering & Technology, Longowal.	
24.	BBA (Bachelor of Business Administration (Sales, Marketing, Advertising and PR Management)	3 Years / 6 Semesters	All those candidates who have passed the 10+2 or its equivalent examination in any stream conducted by a recognized Board / University / Council. OR Those candidates who have passed their Matriculation examination AND have also passed three year Diploma in any Trade from Punjab State Board of Technical Education & Industrial Training, Chandigarh or such Examination from any other recognized State Board of Technical Education, or Sant Longowal Institute of Engineering & Technology, Longowal.	Inter-se-merit in qualifying examination.
25.	BBA (Business Economics)	Bachelor of Business Administration (Business Economics)	3 Years / 6 Semesters	All those candidates who have passed the 10+2 or its equivalent examination in any stream conducted by a recognized Board / University / Council. OR Those candidates who have passed their Matriculation examination AND have also passed three year Diploma in any Trade from Punjab State Board of Technical Education & Industrial Training, Chandigarh or such Examination from any other recognized State Board of Technical Education, or Sant Longowal Institute of Engineering & Technology, Longowal.	Inter-se-merit in qualifying examination.
26.	BBA (Event Management)	Bachelor of Business Administration (Event Management)	3 Years / 6 Semesters	All those candidates who have passed the 10+2 or its equivalent examination in any stream conducted by a recognized Board / University / Council. OR Those candidates who have passed their Matriculation examination AND have also passed three year Diploma in any Trade from Punjab State Board of Technical Education & Industrial Training, Chandigarh or such Examination from any other recognized State Board of Technical Education, or Sant Longowal Institute of Engineering & Technology, Longowal.	Inter-se-merit in qualifying examination.
27.	BBA (Health Spa & Resort)	Bachelor of Business Administration (Health Spa & Resort)	3 Years / 6 Semesters	All those candidates who have passed the 10+2 or its equivalent examination in any stream conducted by a recognized Board / University / Council. OR Those candidates who have passed their Matriculation examination AND have also passed three year Diploma in any Trade from Punjab State Board of Technical Education & Industrial Training, Chandigarh or such Examination from any other recognized State	Inter-se-merit in qualifying examination.



I. K. Gujral Punjab Technical University, Jalandhar

Eligibility Criteria for UGC (Non-AICTE) Courses for Academic Session 2018-19

Sr. No.	Course Nomenclature		Course Duration	Eligibility Criteria	Based on Merit in the order
	Abbreviated	Expanded			
				Board of Technical Education, or Sant Longowal Institute of Engineering & Technology, Longowal.	
28.	BBA (Retail Mgmt.)	Bachelor of Business Administration (Retail Management)	3 Years / 6 Semesters	All those candidates who have passed the 10+2 or its equivalent examination in any stream conducted by a recognized Board / University / Council. OR Those candidates who have passed their Matriculation examination AND have also passed three year Diploma in any Trade from Punjab State Board of Technical Education & Industrial Training, Chandigarh or such Examination from any other recognized State Board of Technical Education, or Sant Longowal Institute of Engineering & Technology, Longowal.	Inter-se-merit in qualifying examination.
29.	BBA (Rural Development)	Bachelor of Business Administration (Rural Development)	3 Years / 6 Semesters	All those candidates who have passed the 10+2 or its equivalent examination in any stream conducted by a recognized Board / University / Council. OR Those candidates who have passed their Matriculation examination AND have also passed three year Diploma in any Trade from Punjab State Board of Technical Education & Industrial Training, Chandigarh or such Examination from any other recognized State Board of Technical Education, or Sant Longowal Institute of Engineering & Technology, Longowal.	Inter-se-merit in qualifying examination.
30.	BBA (Service Industry Management)	Bachelor of Business Administration (Service Industry Management)	3 Years / 6 Semesters	All those candidates who have passed the 10+2 or its equivalent examination in any stream conducted by a recognized Board / University / Council. OR Those candidates who have passed their Matriculation examination AND have also passed three year Diploma in any Trade from Punjab State Board of Technical Education & Industrial Training, Chandigarh or such Examination from any other recognized State Board of Technical Education, or Sant Longowal Institute of Engineering & Technology, Longowal.	Inter-se-merit in qualifying examination.
31.	BCA (Lateral Entry)	Bachelor of Computer Applications (Lateral Entry)	2 Years / 4 Semesters	All those candidates who have passed Matriculation examination AND have also passed 3 Year Diploma in any Trade from Punjab State Board of Technical Education & Industrial Training, Chandigarh or such Examination from any other recognized State Board of Technical Education, or Sant Longowal Institute of Engineering & Technology, Longowal. OR 10+2 with 1 year Diploma in Computer Application / IT (or equivalent) from a recognized University with Mathematics as course at 10+2 or DIT / DCA level.	Inter-se-merit in qualifying examination.
32.	BCA 1 st Year	Bachelor of Computer Applications 1 st Year	3 Years / 6 Semesters	All those candidates who have passed the 10+2 or its equivalent examination in any stream conducted by a recognized Board / University / Council. OR	Inter-se-merit in qualifying examination.



I. K. Gujral Punjab Technical University, Jalandhar

Eligibility Criteria for UGC (Non-AICTE) Courses for Academic Session 2018-19

Sr. No.	Course Nomenclature		Course Duration	Eligibility Criteria	Based on Merit in the order
	Abbreviated	Expanded			
				Those candidates who have passed their Matriculation examination AND have also passed three year Diploma in any Trade from Punjab State Board of Technical Education & Industrial Training, Chandigarh or such Examination from any other recognized State Board of Technical Education, or Sant Longowal Institute of Engineering & Technology, Longowal.	
33.	BFBM	Bachelors of Family Business Management	3 Years / 6 Semesters	All those candidates who have passed the 10+2 or its equivalent examination in any stream conducted by a recognized Board / University / Council. OR Those candidates who have passed their Matriculation examination AND have also passed three year Diploma in any Trade from Punjab State Board of Technical Education & Industrial Training, Chandigarh or such Examination from any other recognized State Board of Technical Education, or Sant Longowal Institute of Engineering & Technology, Longowal.	Inter-se-merit in qualifying examination.
34.	BHMCT	Bachelor of Hotel Management & Catering Technology	4 Years / 8 Semesters	All those candidates who have passed the 10+2 or its equivalent examination in any stream conducted by a recognized Board / University / Council. OR Those candidates who have passed their Matriculation examination AND have also passed three year Diploma in any Trade from Punjab State Board of Technical Education & Industrial Training, Chandigarh or such Examination from any other recognized State Board of Technical Education, or Sant Longowal Institute of Engineering & Technology, Longowal.	Inter-se-merit in qualifying examination.
35.	BIREM	Bachelors in Infrastructure and Real Estate Management	3 Years / 6 Semesters	All those candidates who have passed the 10+2 or its equivalent examination in any stream conducted by a recognized Board / University / Council. OR Those candidates who have passed their Matriculation examination AND have also passed three year Diploma in any Trade from Punjab State Board of Technical Education & Industrial Training, Chandigarh or such Examination from any other recognized State Board of Technical Education, or Sant Longowal Institute of Engineering & Technology, Longowal.	Inter-se-merit in qualifying examination.
36.	BMS (MEFT)	Bachelor of Management Studies (Media Entertainment & Film Technology)	3 Years / 6 Semesters	All those candidates who have passed the 10+2 or its equivalent examination in any stream conducted by a recognized Board / University / Council. OR Those candidates who have passed their Matriculation examination AND have also passed three year Diploma in any Trade from Punjab State Board of Technical Education & Industrial Training, Chandigarh or such Examination from any other recognized State	Inter-se-merit in qualifying examination.



I. K. Gujral Punjab Technical University, Jalandhar

Eligibility Criteria for UGC (Non-AICTE) Courses for Academic Session 2018-19

Sr. No.	Course Nomenclature		Course Duration	Eligibility Criteria	Based on Merit in the order
	Abbreviated	Expanded			
				Board of Technical Education, or Sant Longowal Institute of Engineering & Technology, Longowal.	
37.	BTTM	Bachelor of Tourism and Travel Management	4 Years / 8 Semesters	All those candidates who have passed the 10+2 or its equivalent examination in any stream conducted by a recognized Board / University / Council. OR Those candidates who have passed their Matriculation examination AND have also passed three year Diploma in any Trade from Punjab State Board of Technical Education & Industrial Training, Chandigarh or such Examination from any other recognized State Board of Technical Education, or Sant Longowal Institute of Engineering & Technology, Longowal.	Inter-se-merit in qualifying examination.
38.	M.A. (JAMC)	Master of Arts (Journalism and Mass Communication)	2 Years / 4 Semesters	All those candidates who have passed Graduation in any discipline from a University recognized by UGC.	Inter-se-merit in qualifying examination.
39.	M.Com.	Master of Commerce	2 Years / 4 Semesters	A candidate seeking admission to M.Com. Professional Course must have Graduation Degree in Commerce / Management / Business Administration from any recognised university with at least 50% marks. However, students with Hons Degree with Hons. will get a weightage of 10% of marks obtained in Graduation while finalising the merit. Other Government instructions regarding admission will be followed as such.	Inter-se-merit in qualifying examination.
40.	M.Sc. (AMT)	Master of Science (Animation & Multimedia Technology)	2 Years / 4 Semesters	All those candidates who have passed B.Sc. (IT) or BCA or B.Sc. (Animation & Multimedia Technology) or B.Sc. (CS) of minimum three years duration from a University recognized by UGC.	Inter-se-merit in qualifying examination.
41.	M.Sc. (Bio-Tech.)	Master of Science (Bio-Technology)	2 Years / 4 Semesters	All those candidates who have passed Bachelor's degree in any branch of Science / Agriculture/ Pharmacy / Veterinary / Engineering / Medicine (MBBS) / Medical Lab. Technology / Nursing with minimum 50% marks (45% marks in case of candidate belonging to Reserved Category) in qualifying degree course.	Inter-se-merit in qualifying examination.
42.	M.Sc. (Chemistry)	Master of Science (Chemistry)	2 Years / 4 Semesters	All those candidates who have passed B.Sc. with 50% marks (45% marks in case of candidate belonging to Reserved Category) (45% marks in case of candidate belonging to Reserved Category) with Chemistry as one of the subject from a University recognized by UGC.	Inter-se-merit in qualifying examination.
43.	M.Sc. (Clinical Research)	Master of Science (Clinical Research)	2 Years / 4 Semesters	All those candidates who have passed Graduation with minimum 50% marks (45% marks in case of candidate belonging to Reserved Category) in Life Sciences/ Sciences/ Medical Sciences/ Pharmacy.	Inter-se-merit in qualifying examination.
44.	M.Sc. (Computer Science)	Master of Science (Computer Science)	2 Years / 4 Semesters	All those candidates who have passed any recognized bachelor's degree of minimum three years duration with Mathematics / Statistics / Business Mathematics / Business Statistics / Quantitative Techniques / Computer Science/ Information Technology as	Inter-se-merit in qualifying examination.



I. K. Gujral Punjab Technical University, Jalandhar

Eligibility Criteria for UGC (Non-AICTE) Courses for Academic Session 2018-19

Sr. No.	Course Nomenclature		Course Duration	Eligibility Criteria	Based on Merit in the order
	Abbreviated	Expanded			
				compulsory / Optional / additional paper as one of the subjects either at 10+2 or at graduation level. OR PGDCA / BCA / B.Sc. (IT)/ B.Sc. (CS).	
45.	M.Sc. (Env. Chem.)	Master of Science (Environmental Chemistry)	2 Years / 4 Semesters	a) Candidate must have Passed B.Sc. from a University approved by UGC with Chemistry. b) He/she must have studied that subject for minimum two years in B.Sc. and have secured minimum 50% marks in Chemistry (45% marks for SC/ST category).	Marks merit in qualifying examination.
46.	M.Sc. (Env. Sc.)	Master of Science (Environmental Science)	2 Years / 4 Semesters	All those candidates who have passed B.Sc. in any Science from a University recognized by UGC.	Inter-se-merit in qualifying examination.
47.	M.Sc. (Fashion Mkt. Mgmt.)	Master of Science (Fashion Marketing Management)	2 Years / 4 Semesters	All those candidates who have passed B.Sc./Tech./B.E. or BA/B.Com/BBA/BCA with one of the following subjects : Economics/Statistics/Management/Marketing/Mathematics/Textiles/Fashion/Accounts / Computer/Home Science/ Any other related Diploma	Inter-se-merit in qualifying examination.
48.	M.Sc. (Fashion Technology)	Master of Science (Fashion Technology)	2 Years / 4 Semesters	All those candidates who have passed B.Sc. (Fashion Technology) from a University recognized by UGC.	Inter-se-merit in qualifying examination.
49.	M.Sc. (Garment Manufacturing Tech.)	Master of Science (Garment Manufacturing Tech.)	2 Years / 4 Semesters	All those candidates who have passed B.Sc./Tech./B.E. or BA/B.Com/BBA/BCA with one of the following subjects : Economics / Statistics / Management / Marketing / Mathematics / Textiles / Fashion/Accounts / Computer / Home Science / Any other related Diploma	Inter-se-merit in qualifying examination.
50.	M.Sc. (IT)	Master of Science (Information Technology)	2 Years / 4 Semesters	All those candidates who have passed any recognized bachelor's degree of minimum three years duration with Mathematics / Statistics / Business Mathematics / Business Statistics / Quantitative Techniques / Computer Science/ Information Technology as compulsory / Optional / additional paper as one of the subjects either at 10+2 or at graduation level. OR PGDCA / BCA / B.Sc. (IT)	Inter-se-merit in qualifying examination.
51.	M.Sc. (IT) (Lateral Entry)	Master of Science (Information Technology) (Lateral Entry)	1 Year / 2 Semesters	All those candidates who have passed PGDCA or equivalent with 50% Marks (45% marks in case of candidate belonging to Reserved Category) in aggregate from a University recognized by UGC.	Inter-se-merit in qualifying examination.
52.	M.Sc. (Mathematics)	Master of Science (Mathematics)	2 Years / 4 Semesters	All those candidates who have passed B.A./B.Sc. with Honours in Mathematics or B.A./B.Sc. (pass course) with Mathematics as one of the subjects having at least 50% marks (45% marks in case of candidate belonging to Reserved Category) in aggregate AND at least 55% marks in Mathematics subject from a University recognized by UGC.	Inter-se-merit in qualifying examination.
53.	M.Sc. (Pharma Chemistry)	Master of Science (Pharma Chemistry)	2 Years / 4 Semesters	All those candidates who have passed B.Sc. (Medical/Non Medical) from a University recognized by UGC with Chemistry as one of the subject OR B.Pharma	Inter-se-merit in qualifying examination.



I. K. Gujral Punjab Technical University, Jalandhar

Eligibility Criteria for UGC (Non-AICTE) Courses for Academic Session 2018-19

Sr. No.	Course Nomenclature		Course Duration	Eligibility Criteria	Based on Merit in the order
	Abbreviated	Expanded			
54.	M.Sc. (Physics)	Master of Science (Physics)	2 Years / 4 Semesters	All those candidates who have passed B.Sc. with Physics & Mathematics as compulsory subjects with at least 50% marks (45% marks in case of candidate belonging to Reserved Category) in aggregate, in the qualifying examination from a University recognized by UGC.	Inter-se-merit in qualifying examination.
55.	M.Sc. MLT (Bio-Chemistry)	Master of Science Medical Lab Technology (Bio-Chemistry)	2 Years / 4 Semesters	All those candidates who have passed Bachelor's degree in Medical Lab Technology of minimum three years duration from a University recognized by UGC.	Inter-se-merit in qualifying examination.
56.	MHMCT	Master of Hotel Management & Catering Technology	2 Years / 4 Semesters	All those candidates who have passed Bachelor degree in any stream from a University recognized by UGC.	Inter-se-merit in qualifying examination.
57.	MMS (Service Industry)	Master of Management Studies (Service Industry)	2 Years / 4 Semesters	All those candidates who have passed Bachelor's degree of minimum three years duration from a University recognized by UGC.	Inter-se-merit in qualifying examination.
58.	MTTM	Master of Tourism and Travel Management	2 Years / 4 Semesters	All those candidates who have passed Bachelor's degree of minimum three years duration from a University recognized by UGC.	Inter-se-merit in qualifying examination.
59.	PGDC	Post-Graduate Diploma in Cosmetology	1 Year / 2 Semesters	All those candidates who have passed B.Sc. Medical / B.Sc. Non-Medical/ B.Pharmacy from a University recognized by UGC.	Inter-se-merit in qualifying examination.
60.	PGDCA	Post-Graduate Diploma in Computer Applications	1 Year / 2 Semesters	All those candidates who have passed Graduation in any discipline from a University recognized by UGC.	Inter-se-merit in qualifying examination.
61.	PGDEPDT	Post-Graduate Diploma in Electronics Product Design and Technology	1 Year / 2 Semesters	<p>All those candidates who have passed</p> <ul style="list-style-type: none"> Diploma in Electrical / Electronics / Computer / Instrumentation or equivalent or B.Sc. (Electronics / Computer / Physics / Instrumentation) from recognized University. The maximum age limit for admission shall be 27 years reckoned on 1st July / 1st January of the Academic Year. There is no age bar for admission to this Course for working / sponsored candidates. Reservation of seats shall be as per Government of India norms. If adequate number of candidates belonging to reserved categories are not available, seats will be filled with other eligible candidates. 	Inter-se-merit in qualifying examination.



I. K. Gujral Punjab Technical University, Jalandhar

Eligibility Criteria for UGC (Non-AICTE) Courses for Academic Session 2018-19

Sr. No.	Course Nomenclature		Course Duration	Eligibility Criteria	Based on Merit in the order
	Abbreviated	Expanded			
62.	PGDHD	Post-Graduate Diploma in Herbal Drugs	1 Year / 2 Semesters	All those candidates who have passed B.Sc. Medical / B.Pharmacy from a University recognized by UGC.	Inter-se-merit in qualifying examination.
63.	PGDPA	Post-Graduate Diploma in Pharmaceutical Analysis	1 Year / 2 Semesters	All those candidates who have passed B.Sc. Medical / B.Sc. Non-Medical/ B.Pharmacy from a University recognized by UGC.	Inter-se-merit in qualifying examination.
64.	PGDPBA	Post-Graduate Diploma in Pharm. Business Administration	1 Year / 2 Semesters	All those candidates who have passed Graduation in any discipline from a University recognized by UGC.	Inter-se-merit in qualifying examination.
65.	PGDPDM	Post-Graduate Diploma in Packing and Distribution Management	1 Year / 2 Semesters	All those candidates who have passed B.Sc. Medical / B.Sc. Non-Medical/ B.Pharmacy from a University recognized by UGC.	Inter-se-merit in qualifying examination.
66.	PGDPM	Post-Graduate Diploma in Pharm. Marketing	1 Year / 2 Semesters	All those candidates who have passed Graduation in any discipline from a University recognized by UGC.	Inter-se-merit in qualifying examination.
67.	PGDPP	Post-Graduate Diploma in Pharmaceutical Packing	1 Year / 2 Semesters	All those candidates who have passed B.Sc. Medical / B.Sc. Non-Medical/ B.Pharmacy from a University recognized by UGC.	Inter-se-merit in qualifying examination.
68.	PGDRA	Post-Graduate Diploma in Regulatory Affairs	1 Year / 2 Semesters	All those candidates who have passed B.Sc. Medical / B.Sc. Non-Medical/ B.Pharmacy from a University recognized by UGC.	Inter-se-merit in qualifying examination.
69.	M. Phil	M. Phil (Journalism & Mass Communication)	1 Year / 2 Semester	PG in Journalism & Mass Communication with 55% Marks or equivalent degree form a UGC recognised University.	

Ref. No. : DAVIET/ 2018-19/ 8272

Dated : 16/10/18

Director (Academics)
IKG Punjab Technical University
Jalandhar

Sub:- Proposed agenda for 51st Academic Council Meeting.

Dear Sir,

This has reference to your letter no. IKGPTU/DA/1122 dated: 25/09/2018 regarding the above cited subject.

I am appending here below some agenda points for consideration by the Academic Council of IKG PTU in the above said meeting:-

Agenda Points:-

As per AICTE directives, NBA Accreditation is mandatory for all the Institutions by 2021. In order to facilitate the institutions to get accredited, the following revisions are suggested to align the academic regulations in accordance with the NBA guidelines:-

1. Course Outcome(s) for each subject/course may be framed through respective BOS, wherever, not defined by AICTE in the proposed revised curriculum.
2. As per criteria no. 3 of NBA guidelines, attainment of Course Outcomes (COs) through internal evaluation/assignments/quiz etc. is mandatory.

As per the existing regulations circulated by the university vide no. IKG PTU/DA/2224 dated: 19/07/2018, a student is awarded internal marks based on the performance in one MST out of the two; thus, giving an option to the student to appear well in either of the two MSTs. However, when it comes to show the progression and that too in ascending order in line with the NBA framework it creates a problem for the department/institution.

Therefore, either both the MSTs should be made compulsory or we may conduct only one MST, which should be made **compulsory** for students. In such a case, the MST may preferably be conducted at the end of the semester covering full syllabus and of 03 hours duration. The sample MST annexed at **Annexure – I** will facilitate the computation of CO attainment. In order to ensure 100% participation of the students in MSTs, it is suggested that no extra curricular activity be scheduled in adjacencies of the MST scheduled by the university.

3. The questions in the question paper for 'University End Semester Examinations' should be mapped with the Course Outcome(s) along with the mention of the knowledge level (As per Bloom's Taxonomy) for that particular question. Both knowledge level and mapped course outcome must be mentioned against each question in the question paper.

4. The university pass percentage for each course should be declared alongwith the results to make it convenient for the institution to set a target level for CO attainment.

The net percentage marks scored by all the students for a particular question and its sub parts be also calculated and announced by the university as per the requirements of NBA framework.

I am also submitting herewith certain suggestions regarding Evaluation Center(s) for your kind consideration:-

1. The remuneration for evaluation of answer sheets is far less than what is offered in other universities and as a result senior faculty members do not show interest in evaluation. Therefore, the same may please be enhanced.
2. Other colleges within the cluster do not relieve their faculty/evaluations, which hinders the timely completion of the evaluation.
3. Evaluation of minimum answer books (200 sheets) has been made compulsory by IKG PTU but the compliance of the same is not being ensured which delays the evaluation process.
4. For faculty members having experience of more than 10 years, the condition of having taught the subject/course twice may be waived off.
5. For courses related to Humanities/Social Sciences, the faculty with appropriate qualifications and experience may be allowed to evaluate similar courses in other programs/streams irrespective of the syllabi e.g. Maths-I, Maths-II, Maths-III, Discrete Mathematics, Statistical & Numerical Methods, Optimization Techniques, Operations Research, Human Values etc.
6. Similar subjects of allied and other branches of engineering should be evaluated even if the Code/Branch/Stream are different.
7. Solutions to the question papers should be provided by the university to all the evaluation centres in order to ensure timely and uniform evaluation at all centres.
8. Instead of 10% (present norms), at least 30% of the answer books should be examined by the head examiner.
9. The Assistant Controller of evaluation centre shall be of the level of Assistant Professor & above and should be offered remuneration equivalent to Controller of evaluation centre.
10. The gazette notification of the result which is sent to all the institutions in 'pdf form' may please also be supplemented in the form of an **Excel Sheet** for avoiding re-entry of the data in the ERP(s) of individual institutions.

Thanks with regards,


(Dr. Manoj Kumar)
Principal

Encl. As above.

DAV INSTITUTE OF ENGINEERING AND TECHNOLOGY, JALANDHAR

DEPARTMENT OF MECHANICAL ENGINEERING

Program		Semester	
Subject Code		Subject Title	
MST No.	1	Course Coordinator	
Max. Marks	24	Time Duration	1 hour 30 Minutes
Date of MST		Roll No	

Note: Attempt all questions

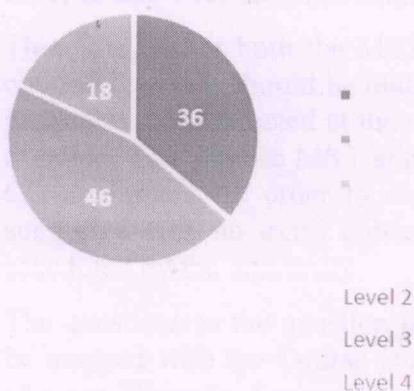
Quest. No	Question	COs, RBT level	Marks	PI
1		CO4, L1	2	1.4.1
2		CO2, L3	2	1.2.2
3		CO5, L4	4	
4		CO2, L4	4	
5		CO2, L3	4	
6	Option 1 OR Option 2	CO5, L4	8	

Course Outcomes (COs)

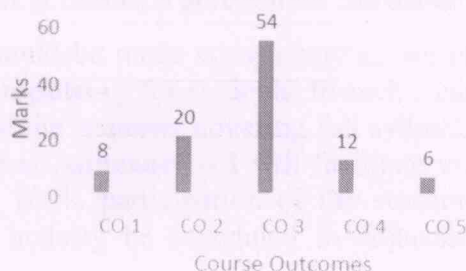
Students will be able to

CO1	
CO2	
CO3	
CO4	
CO5	
CO6	

Bloom's Level wise Marks Distribution



Course Outcome wise Marks Distribution



BL – Bloom's Taxonomy Levels (1- Remembering, 2- Understanding, 3 – Applying, 4 – Analysing, 5 – Evaluating, 6 - Creating)

CO – Course Outcomes

PO – Program Outcomes; PI Code – Performance Indicator Code

PATTERN OF QUESTION PAPER

[Total No. of Questions:09]

[Total No. of Pages:....]

Uni. Roll No.

Program/ Course: B.Tech. (Sem.)

Name of Subject:

Subject Code:

Paper ID:

Time Allowed:.... Hours

Max. Marks:60

NOTE:

- 1) **Parts A and B are compulsory**
- 2) **Part-C** has two sections: section C1 and section C2. Attempt one question each from the section C1 and C2.
- 3) Any missing data may be assumed appropriately

Part – A

[Marks: 02 each]

Q1.

- a) Question based on Low Order Thinking Skills (LOTS)
- b) Question based on Low Order Thinking Skills (LOTS)
- c) Question based on Low Order Thinking Skills (LOTS)
- d) Question based on Low Order Thinking Skills (LOTS)
- e) Question based on High Order Thinking Skills (HOTS)
- f) Question based on High Order Thinking Skills (HOTS)

Part – B

[Marks: 04 each]

Q2. Question based on Low Order Thinking Skills (LOTS)

Q3. Question based on Low Order Thinking Skills (LOTS)

Q4. Question based on Low Order Thinking Skills (LOTS)

Q5. Question based on High Order Thinking Skills (HOTS)

Q6. Question based on High Order Thinking Skills (HOTS)

Q7. Question based on High Order Thinking Skills (HOTS)

Part – C

Section-C1

[Marks: 12 each]

Q8(a). Question based on High Order Thinking Skills (HOTS) from Part-I of syllabus

or

Q8(b). Question based on High Order Thinking Skills (HOTS) from Part-I of syllabus

Section-C2

[Marks: 12 each]

Q9(a). Question based on High Order Thinking Skills (HOTS) from Part-II of syllabus

or

Q9(b). Question based on High Order Thinking Skills (HOTS) from Part-II of syllabus

I.K.G. Punjab Technical University Jalandhar, Kapurthala

GUIDELINES FOR THEORY QUESTION PAPER SETTER

(Form-III)

(B.Tech-2018 Batch Onwards)

The following guidelines should be taken into consideration for Theory Question Paper Setting:

1. The question paper shall have three parts: Part A consists of one question with 06 sub-questions of two (02) marks each. Part B consists of six question of four (04) marks each. Parts C consists of two section C1 and section C2. Each of the sections C1 and C2 has two questions of twelve (12) marks each.
 - 1) Please include a Note stating that Parts A and B are compulsory. Part-C has two sections C1 and C2. Attempt one question each from the section C1 and C2. Types of tables, charts/Graphs, Data Books, Codes etc. if required by the student should also be clearly mentioned in the Note given in the question paper. These may also be included in the question paper.
 - 2) The sub-question of part A should be well distributed covering the entire syllabus. These questions shall be of short answer type to test different levels of thinking as per Revised Blooms's Taxonomy (RBT). Out of the six sub-question of part-A, four sub-questions should be based on low order Thinking Skills (LOTS) considering "Remember and/or "Understand" and/or Apply level of RBT and remaining two should be based on High Order Thinking Skills (HOTS) considering Analyze and/or Evaluate and/or "Create" levels of RBT. Refer Table-1 for Revised Blooms's Taxonomy on the back-page of cover letter.
 - 3) Questions in Parts B and C Should be uniformly distributed over the entire syllabus.
 - 4) Out of the six question of part-B three questions should be based on Low Order Thinking Skills (LOTS) and remaining three should be based on High Order Thinking Skills (HOTS). For LOTS and HOTS above cited levels of RBT should be used.
 - 5) Out of the two question of each of the sections C1 and C2 of Part C, the candidates have to attempt one question. Both the question of section C1

is to be based on HOTS and from part-1 of the syllabus. Similarly, both the question of section C2 is based on HOTS and from part-II of the syllabus.

- 6) All Course Outcomes must be covered while designing the question paper.
- 7) Maximum marks awarded should be sixty (60) and time allowed to attempt question is three (03) hours (Except for Three subjects of Mechanical Engineering i.e. Machine Drawing, Machine Design -I and Machine Design-II in which case the time allowed is four (04) hour.
- 8) Kindly prepare the theory question paper in ready-to-use form by typing in MS Word on A4 size paper and provide all required information in the blank spaces of the given question paper format. Also put the symbol *twelve times without any space in between at the end of question to show the end of question paper. Submit the two hard copies (press Copy and Office Copy) of theory question paper in separate envelopes.
- 9) The mathematical equations/ symbols should be legibly typed using equation editors. Tables and diagrams should be legibly inserted/ drawn. For question papers related to drawing subjects' dimensions should be legibly provided.
- 10) The paper setter must maintain strict confidentiality regarding setting of question papers.
- 11) Destroy all rough copies (soft and hard) of the question paper and solutions of numerical question.
- 12) Do not include more than 15% same questions which have been set for same/ similar subject/s for any internal examinations of your institute/ university since last two years (including current year). Copies of question papers of end semester examination of University for the last two years are attached with these guidelines.
- 13) Overall the question paper should have 60% HOTS and 40% LOTS.
- 14) The paper setter should duly sign and seal all envelopes including the big envelop with cello tape at proper places.
- 15)The paper setter must include Numerical/ Programming/Design/ Drawing/Problem Solving Based Question in the questions paper, wherever applicable. The minimum Numerical /

Programming/Design/Drawing/ Problem Solving Based Question are specified in the cover letter.

- 16) The paper setter shall provide detailed solution to numerical question in separate envelope marked 'C' for evaluation.

Controller of Examinations

IK Gujral Punjab Technical University



(FORM – I)

No.COE/Conf./

Dated:

To

Dr XYZ

ABC Dept

Paper Setter ID: 1712443

Sub: Appointment of Paper Setter of Theory Question Paper for End Semester Examinations Nov. 2017.

Dear Sir/ Madam,

It is my pleasure to appoint you to act as a Paper Setter for the End Semester External Theory Examinations as per the following details:

Program	Sem.	Paper ID	Subject Code	Name of Subject	No. of Set/s of Q. Papers	Minimum Problem Solving Content (%age)
B.Tech.	3	15868	BTAS-17105	Engineering Chemistry	1	30

You may kindly note that your appointment is subject to fulfilment of the conditions listed on the next page.

The syllabus of the subject along with guidelines for setting theory question paper is enclosed herewith. The remuneration for setting of one set of theory question paper (along with solution of numerical questions) is Rs. 1000/- (One thousand only).

Kindly prepare two hard copies (Press Copy and Office Copy) of each theory Question Paper by duly typing in MS Word on A4 size paper as per the Question Paper Format enclosed herewith/handed over. **These copies should be ready to use directly for printing.** Put Press Copy of the question paper in Envelope 'B-1' and Office Copy in Envelope 'B-2'. The solution of numerical/programming questions (if applicable) must be sent in Envelope 'C'. Kindly ensure that all these Envelopes are duly signed and sealed. Please put the following Envelopes in the big Envelope 'E' marked 'Confidential', also duly sign and seal it:

1. Duly signed and sealed Envelope 'B-1' (Containing Press Copy of Question Paper);
2. Duly signed and sealed Envelope 'B-2' (Containing Office Copy of Question Paper);
3. Duly signed and sealed Envelope 'C' (Containing solution of numerical questions);
4. Remuneration Bill-cum-Receipt in Envelope 'D'.

In case of physically handing over the requisite envelope to the undersigned or my representative kindly do not put duly signed Remuneration Bill-cum-Receipt inside the big Envelope 'E'.

Please make sure to destroy all rough copies (soft and hard) of the question paper and solution of numerical questions.

Please send/hand over the theory question paper to the undersigned/nominee within 7 days positively from the receipt of this letter.

Any correspondence in this regard shall be made only with the undersigned under CONFIDENTIAL cover. Hope you will extend full co-operation in our endeavour to ensure high quality, confidential and error free question papers. In case, it is not possible for you to accept this appointment, kindly inform immediately and return all the enclosures of this letter intact so that alternate arrangements could be made without delay. **You may also download the soft copy of applicable question paper template based on course and problem solving content available at <http://exam.gndec.ac.in/qptemplates/>.**

Yours sincerely,

Controller of Examinations

Encls:

- | | |
|---|---|
| i) Guidelines for setting question paper (Form-III) | ii) Syllabus of the subject |
| iii) Question Paper Format | iv) Envelopes 'B-1', 'B-2', 'C', 'D', 'E' |

General Conditions for Setting of Theory Question Paper

- None of your ward or relative is appearing in End Semester Examinations of IK Gujral Punjab Technical University Jalandhar, Kapurthala in the theory question paper being set by you.
- You have more than three years teaching/research experience in the subject matter related to the theory question paper for which acceptance is provided by you.
- You have never been disqualified for any examination work by any institute and/or university.
- You will destroy all rough copies (soft and hard) of the question paper (and its solution) being set by you.
- You will maintain strict confidentiality in this matter.
- You will prepare a good quality theory question paper to assess student's knowledge and skills to apply, analyze, evaluate and create in learned concepts of subject.
- You will prepare a good quality theory question paper to measure generic learning outcomes (applicable for UG Engg. and PG Engg.).
- Questions of paper will lead to answers which will distinguish between weak and strong candidates, i.e. opportunities for candidates to demonstrate distinction-level skills and knowledge.

Table 1: Blooms's Revised Taxonomy Levels

Sr. No.	Low Order Thinking Skills (LOTS)	High Order Thinking Skills (HOTS)
1.	Remembering: Recalling relevant terminology, specific facts, or different procedures related to information and/or course topics. At this level, a student can remember something, but may not really understand it. (Recalling information, Recognizing, Listing, Describing, Retrieving, Naming)	Analyzing: The ability to break information down into its component parts. Analysis also refers to the process of examining information in order to make conclusions regarding cause and effect, interpreting motives, making inferences, or finding evidence to support statements/arguments. (Breaking information into parts to explore understanding and relationships, Comparing, Organizing, Deconstructing, Interrogating, Finding)
2.	Understanding: The ability to grasp the meaning of information, facts, definitions, concepts, etc. that has been presented. (Explaining idea or concepts, Interpreting, Summarizing, Paraphrasing, Classifying, Explaining)	Evaluating: Being able to judge the value of information and/or sources of information based on personal values or opinions. (Justifying a decision or course of action, Checking, Hypothesizing, Critiquing, Experimenting, Judging)
3.	Applying: Being able to use previously learned information in different situations or in problem solving. (Using Information in another familiar situation, Implementing, Carrying out, using, executing)	Creating: The ability to create or uniquely apply prior knowledge and/or skills to produce new and original thoughts, ideas, processes, etc. At this level, students are involved in creating their own thoughts and ideas. (Generating new ideas, Products, or ways of viewing things, Designing, Constructing, Planning, Producing, Inventing)

LIST OF COURSES PROPOSED TO BE ADDED IN THE APPROVED LIST OF IKGPTU

(a) Undergraduate Courses (1st year and Lateral Entry)

Course Name	Duration	Eligibility Criteria
Bachelor of Beauty & Wellness	3 year	10+2 in any stream
Bachelor of Graphic & Web Designing	3 year	10+2 in any stream
Bachelor of Science (Waste and Environmental Sciences)	3 year	10+2 in any stream
Bachelor of Science Bachelor in Medical Equipment Technician	3 year	10+2 in any stream

Course Name	Lateral Entry in Semester	Eligibility Criteria
Bachelor of Hotel Management & Catering Technology	2 nd year / 3 rd semester	10+2 with One Year Diploma from food Craft Institute, NCHMCT Diploma, Vocational Diploma NCVT /Sector Skill Certificate / NSQF level 5 in concerned field.
Bachelor of Tourism and Travel Management	2 nd year / 3 rd semester	10+2 with One Year Diploma from food Craft Institute, NCHMCT Diploma, Vocational Diploma NCVT /Sector Skill Certificate / NSQF level 5 in concerned field.

(b) Postgraduate Diploma

Sr. No.	Course Name
1	Post Graduate Diploma in Medical Lab Technology
2	Post Graduate Diploma in Pharmaceutical Analysis and Quality Control
3	Post Graduate Diploma in Pharmaceutical Marketing and Entrepreneurship
4	Post Graduate Diploma in Pharmacovigilance & Clinical Trials

(c) B. Voc Courses

(i) AICTE Courses

Sr. No.	Courses Name
1	B.Voc in Automobile Servicing
2	B.Voc in Automotive Manufacturing Technology
3	B.Voc in Banking, Financial Services and Insurance
4	B.Voc. in Electronic Manufacturing Services
5	B.Voc in Food Processing
6	B.Voc in Graphics and Multimedia
7	B.Voc. in Medical Imaging Technology
8	B.Voc. in Multimedia Animation
9	B.Voc in Refrigeration & Air Conditioning

10	B.Voc in Software Development
11	B.Voc in Travel and Tourism

(ii) Non - AICTE Courses

Sr. No.	Course Name
1	B. Voc. (Applied Computer Technology)
2	B. Voc. (Aerospace and Aviation)
3	B. Voc. (Agriculture)
4	B. Voc. (Building Construction Technology)
5	B. Voc. (Beauty and Wellness)
6	B. Voc. (Beauty Therapy and Aesthetics)
7	B. Voc. (Digital Media & Animation)
8	B. Voc. (Fashion Designing)
9	B. Voc. (Hardware and Networking)
10	B. Voc. (Hotel Management & Catering Technology)
11	B. Voc. (Journalism and Mass Communication)
12	B. Voc. (Life Sciences)
13	B.Voc. (Multimedia Animation)
14	B. Voc. (Marketing Management & IT)
15	B. Voc. (Medical Lab and Molecular Diagnostic Technology (X Ray Technician)
16	B. Voc. (Networking & System Administration)
17	B. Voc. (Nutrition and Health Care Science)
18	B. Voc. (Paramedical and Health Administration (Nanny Care))
19	B. Voc. (Paramedical and Health Administration (Old Age Care))
20	B. Voc. (Paramedical and Health Administration (Operation Theatre Technician)
21	B. Voc. (Tourism and Hospitality Management)
22	B. Voc. (Tourism and Travel Management)
23	B. Voc. (Web Technologies and Multimedia)
24	B. Voc. (Hotel Management & Catering)
25	B. Voc. (Aviation & Tourism)
26	B. Voc. (Business Administration)
27	B. Voc. (Animation & Multimedia)