ARTICULATION AGREEMENT

between

THOMPSON RIVERS UNIVERSITY

and

I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY

(2018)

ARTICULATION AGREEMENT (Bachelor of Engineering)

THIS AGREEMENT is dated for reference the ___l___ day of __August__,
2018.

BETWEEN:

THOMPSON RIVERS UNIVERSITY
Represented by Its International Education Division, TRU World,
With a mailing address of:
805 TRU Way, Kamloops, BC, CANADA   V2C 0C8
(hereinafter called **"TRU"**)

AND

I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY
With a mailing address of
Jalandhar- Kapurthala Highway,Kapurthala-144603
Distt. Kapurthala, Punjab, INDIA
(hereinafter called **"IKG-PTU"**)

A   BACKGROUND

A.1   TRU is a Degree granting Public University operating in Kamloops, B.C., Canada.

A.2   IKG-PTU is a Degree granting State University operating in District Kapurthala, Punjab, India.

A.3   IKG-PTU offers to its students the Bachelor of Technology in Software Engineering program (hereinafter called "IKG-PTU Program").

A.4   TRU offers to its students the Bachelor of Engineering in Software Engineering (hereinafter called "TRU Program") and is empowered to grant degrees to the graduates of TRU Program.

B   OBJECTIVES

The objectives of this Agreement include, but are not limited to:

B.1   Ensuring access by eligible students of IKG-PTU Program to TRU Program.

B.2   Establishing criteria to determine eligibility of IKG-PTU students to TRU Program.

B.3   Determining the transferability and applicability of certain courses offered by IKG-PTU to the TRU Program.

B.4   Establishing of processes to encourage, review and expand, as appropriate, this Agreement between TRU and IKG-PTU.

C   AGREEMENT

C.1   TRU agrees to accept 7 IKG-PTU students per year on the basis of the criteria set out in Schedules "A" and "B" of this Agreement.

C.2   Both IKG-PTU and TRU agree to encourage IKG-PTU students to participate in this articulation program by providing information and assistance to prospective transfer students. Current transferability and applicability of the IKG-PTU Programs to the TRU Program is set out in Appendix A to this Agreement.

C.3   Both IKG-PTU and TRU will designate a program representative at its respective campus to facilitate coordination of this Agreement.

D   TERM OF AGREEMENT

D.1   This Agreement will become effective on the date first written above and shall have a term of two (2) years, unless either party notifies the other in writing at least six (6) months before the end of the term of its desire to terminate the Agreement. If either party breaches a material term herein, this Agreement may be terminated by the other party upon giving three (3) months' written notice of such breach.

D.2   In the event of the termination of this Agreement under Section D.1, both parties acknowledge and agree that, subject to Section C.1 above, all students enrolled in the IKG-PTU Programs as at the date of the written notice of such termination shall be eligible to apply to the TRU Bachelor of Science program. Admission to TRU in this case will be based on the fulfilment of admission requirements and seat availability.

D.3   Each institution must notify the other as soon as reasonably possible when making material changes to curriculum of the IKG-PTU program or the TRU Program as the case may be. Depending on the nature of the curriculum change, adjustments to the attached Schedules and Appendix of this Agreement may be necessary.

E   GENERAL

E.1   Any notice or other communication between the parties may be delivered by courier, mail, facsimile or electronic mail to the respective addresses of the parties set out below:

If to TRU:

> TRU World
> 805 TRU Way, Kamloops, BC, Canada V2C 0C8

> Attention: Baihua Chadwick, Associate Vice-President International and CEO TRU World Global Operations
> Facsimile: 250-828-5140

E-mail: bchadwic@tru.ca

If to IKG-PTU:
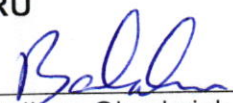
IKG-PTU   I.K.Gujral Punjab Technical University
               Jalandhar - Kapurthala Highway
               VPO - Ibban, Kapurthala-144603
               Distt. Kapurthala India
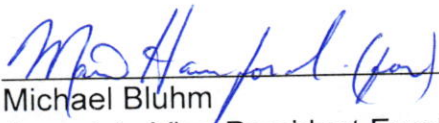
Attention: Prof. (Dr.) Narinder Paul Singh
               Dean (Planning & External Programmes)
Facsimile: +91-98722-80044; landline no.01822-662504
E-mail: dean.pep@ptu.ac.in

E.2   This Agreement shall be construed in accordance with the laws of the Province of British Columbia and any legal proceedings arising out of this Agreement shall be brought in Kamloops, B.C

E.3   Neither party to this Agreement shall be liable to the other party for any failure or delay in performance caused by circumstances beyond its control including, but not limited to, acts of God, fire, labour difficulties, unusually severe weather or governmental action. If TRU ceases offering the TRU Program, IKG-PTU will stop accepting new students into the IKG-PTU Program immediately upon receiving written notice from TRU. Both TRU and IKG-PTU will work collaboratively to explore alternative educational pathways for students who are registered in the IKG-PTU Program.

IN WITNESS WHEREOF TRU and IKG-PTU have executed this Agreement on the dates set out below:

TRU   **IKG-PTU**

_____   _____
Baihua Chadwick   Prof. (Dr.) Ajay Kumar Sharma
Associate Vice-President International   Vice Chancellor
CEO TRU World Global Operations

_____   _____
Michael Bluhm   Prof. (Dr.) Narinder Paul Singh
Associate Vice-President Enrolment   Dean (Planning & External Programmes)
Services & University Registrar

Date: July 17, 2018   Date: 26/7/2018

Schedule A

to an

Articulation Agreement between TRU and IKG-PTU

TRU agrees to accept IKG-PTU students into the TRU Program for fall 2019 and fall 2020 on the following basis:

1) Seven (7) seats shall be granted annually to IKG-PTU students on the basis of competitive entry, determined by grades.

2) Completed TRU application packages with required documentation (including high school transcript, IKG-PTU transcript, English language test result, TRU application form) are received by TRU International Admissions Office by March 15.

3) IKG-PTU students have successfully completed, or are enrolled in and are in the process of completing all the courses set out in Appendix A to this Agreement. A minimum grade of "C" is required for each course listed therein.

4) IKG-PTU students have achieved a minimum 2.8 GPA on a 4.0 grade scale in the first year of the IKG-PTU Program.

5) TRU International Admissions Office is informed of student visa confirmation by July 31.

6) A student applicant interview may be required if needed.

Schedule B

to an

Articulation Agreement between TRU and IKG-PTU

IKG-PTU Program: Bachelor of Technology in Software Engineering

TRU Program: Bachelor of Engineering in Software Engineering

TRU Bachelor of Engineering in Software Engineering Admission Requirements

The current admission requirements into First Year of Software Engineering are:

High School Admission Requirements:
1. BC Grade 12 (or equivalent).
2. English IELTS 6.5 with no bands below 6.0; TOEFL iBT 88+ with no section below 20; TOELF paper-based 570+ TWE 4.5+; CanTEST 4.5+ with no component score below 4.0; CAEL overall 70+ with no subtest below 60 (or equivalent).
3. BC Pre-Calculus 12 with a minimum of 67% (or equivalent).
4. BC Chemistry 12 with a minimum of 67% (or equivalent).
5. BC Physics 12 with a minimum of 67% (or equivalent).

Recommended Courses:

Although not required, the following courses are very beneficial: Calculus 12, Drafting 12, a computing or information technology course involving computer programming and problem solving using high-level languages such as C/C++, Visual Basic, or Java.

TRU Bachelor of Engineering in Software Engineering Degree Requirements
1. Completion of 152 credits.
2. Completion of TWO COOP Work Terms.
3. Student must earn a grade of "C" or better in all prerequisite courses.
4. Student must achieve a cumulative grade point average (GPA) of 2.5 in order to graduate.
5. Student must maintain a cumulative grade point average (GPA) of 2.33 in order to progress.
6. Student must complete the following courses:

Course Code	Course Title	Credit
ENGR 1100	Introduction to Engineering & Design	3
SENG 1110	Programming for Engineers 1	3
DRAF 1520	Engineering Graphics	3
ENGL 1100	Introduction to University Writing	3

EPHY 1150	Physics for Engineers 1	3
MATH 1130	Enriched Calculus 1	3
EPHY 1250	Physics for Engineers 2	3
EPHY 1700	Engineering Mechanics 1	3
MATH 1230	Enriched Calculus 2	3
MATH 1700	Discrete Mathematics	3
EPHY 1990	Introduction to Engineering Measurements	2
SENG 1210	Programming for Engineers 2	3
PHYS 2150	Circuit Analysis	3
EPHY 2200	Electrical Properties of Materials	3
ENGR 2200	Engineering in Society, Health and Safety	3
CENG 2010	Computer Architecture & Assembly Language	3
CMNS 1290	Introduction to Professional Writing	3
STAT 2230	Probability and Statistics for Engineers	3
MATH 1300	Linear Algebra for Engineers	3
CENG 2030	Introduction to Digital Signal Processing	3
EPHY 2990	ECE Design	3
EPHY 2300	Digital Electronics	3
PHYS 2250	Intermediate Electromagnetism	3
ENGR 2300	Engineering Management	3
ENGR 2400	Engineering Economics	3
CHEM 1520	Principles of Chemistry	3
SENG 3110	Algorithms & Data Structures	3
CENG 3010	Computer System Design	3
EENG 3010	Introduction to Control Systems	3
SENG 3130	Software Requirements and Specifications	3
CENG 3310	Digital Communications Systems	3
ENGR 3300	Engineering Professional Ethics	3
COMP 3410	Operating Systems	3
COMP 3610	Database Management Systems Design	3
SENG 3120	Software Engineering Design: Process & Principles	3
SENG 3210	Applied Software Engineering	3
CENG 3020	Real Time Systems Design	3
XXXX	Natural Science Elective	3
SENG 4100	Software Engineering Design Project	6
SENG 4120	Software Model Engineering & Formal Methods	3
SENG 4110	Software Testing & Verifications	3
SENG 4130	Software Design Patterns	3

SENG 4XXX	Upper Level Technical Elective -1	3
SENG 4XXX	Upper Level Technical Elective -2	3
CENG 4320	Communications Networks	3
SENG 4230	Software Estimation	3
SENG 4220	Software Security Engineering	3
SENG 4140	Software Quality Engineering	3
SENG 4XXX	Upper Level Technical Elective -3	3
SENG 4XXX	Upper Level Technical Elective -4	3
COOP 2080	Engineering Work Term-I	0
COOP 2180	Engineering Work Term-II	0
	Total	**152**

Note:
1. Two of the Upper Level Technical Electives can be from EENG or CENG Upper Level Technical Electives on the approval of the engineering program advisor.
2. Natural Science Elective needs to be approved by the engineering program advisor.

Transfer Credits

IKG-PTU students shall obtain 35 transfer credits after completion of the first year of IKG-PTU Bachelor of Technology in Software Engineering, as set out in Appendix A to this Agreement.

Note: After transferring to TRU, students are responsible for consulting with their TRU program advisor to ensure courses selected are appropriate for their program of study or to meet future educational goals.

Appendix A: Transfer Credit Mapping: IKG-PTU Bachelor of Technology in Software Engineering to TRU Program

IKGPTU Course Code	IKGPTU Course Title	TRU Course Code	TRU Course Title	Credit
SE 1110	Programming for Engineers 1	SENG 1110	Programming for Engineers 1	3
SE 1210	Programming for Engineers 2	SENG 1210	Programming for Engineers 2	3
EP 1150	Physics for Engineers 1	EPHY 1150	Physics for Engineers 1	3
EP 1250	Physics for Engineers 2	EPHY 1250	Physics for Engineers 2	3
EP 1700	Engineering Mechanics 1	EPHY 1700	Engineering Mechanics 1	3
EP 1990	Introduction to Engineering Measurements	EPHY 1990	Introduction to Engineering Measurements	2
MA 1130	Enriched Calculus 1	MATH 1130	Enriched Calculus 1	3
MA 1230	Enriched Calculus 2	MATH 1230	Enriched Calculus 2	3
MA 1300	Linear Algebra for Engineers	MATH 1300	Linear Algebra for Engineers	3
MA 1700	Discrete Mathematics	MATH 1700	Discrete Mathematics	3
CH 1520	Principles of Chemistry	CHEM 1520	Principles of Chemistry	3
DR 1520	Engineering Graphics	DRAF 1520	Engineering Graphics	3
			Total	35

Note:

All courses to be transferred to TRU must be successfully completed with a minimum of grade "C".

![Gmail](Gmail logo)

Bhalwinder Singh Dhanaula <bsdhanaula@gmail.com>

Fw: IKG-PTU future BEng transfer partner applications - dates and processes (work-in-progress for 2020)

1 message

Saurabh Sharma <saurabh@ptu.ac.in>   Tue, Mar 5, 2019 at 3:20 PM
To: "bsdhanaula@gmail.com" <bsdhanaula@gmail.com>

Pls attach enclosed application form & trailing email as supplementary document with already signed agreement of Bachelor in Software Engg.

Saurabh

From: Narinder Pal Singh <singhnp160@gmail.com>
Sent: Tuesday, March 5, 2019 12:39 PM
To: Saurabh Sharma
Subject: FW: IKG-PTU future BEng transfer partner applications - dates and processes (work-in-progress for 2020)

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With Regards

(Dr Narinder P Singh)
Dean, IKG Punjab Technical University
Jalandhar-Kapurthala Highway,
Kapurthala-144 603
Mobile No. +91 9872280044

From: Christine Lee <Clee@tru.ca>
Date: Thursday, 28 February 2019 at 2:31 AM
To: Narinder Pal Singh <singhnp160@gmail.com>
Cc: George Gong <Ggong@tru.ca>, Agnes Hsu <ahsu@tru.ca>, Larry Peatt <lpeatt@tru.ca>
Subject: IKG-PTU future BEng transfer partner applications - dates and processes (work-in-progress for 2020)

Dear Dr. Singh,

Hello and thank you for working so closely with Cindi to prepare for meeting our TRU delegation next week.

I know we are looking at March 15, 2020 for a possible first intake applications at TRU, but for your reference, please find attached an application process document for future reference to supplement our agreement, which specifies the admission requirements.

In the attached document, the specific documents and forms are listed. Please note that:

- For the application FORM: There is a application fee for each online application.
- For application support documents: If IKG-PTU would like to batch the application support documents in future, that is ok, too. Please ensure that each student applicant is noted clearly in the email or on a cover sheet. (Also please note file size limitations over email).
- While OFFICIAL transcripts are not required for admission or for a final acceptance letter, student transfer credits cannot be processed onto their records until official transcripts from IKG-PTU are received. Thus, we encourage official transcripts in hard copy be forwarded to TRU earlier than later. They can mailed as a batch to:

> International Admissions
> Thompson Rivers University
> 805 TRU Way
> Kamloops, BC Canada V2C 0C8

Kind regards,

Christine Lee
Transnational Education Coordinator
TRU World | 250.852.7239 | IB3041

2 attachments

IKGPTU ART BEng 2018-08.pdf
4103K

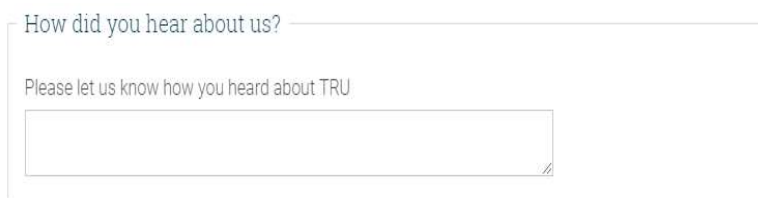**TNE Partner Application Process IKGPTU 2020.docx**
32K

TNE Partner Application Process
(Transnational Partner: IKG-PTU)

(For TRU BEng applications for fall 2020: Application due date: March 15)

APPLICATION FORM/DOCUMENTS
TRU Application form:

1) Go to the application form at https://www.tru.ca/forms/truworld/apply/.
2) Please fill out the form for the student.
3) On page one of the form, in the section "How did you hear about us?"

enter TNE Partner IKG-PTU, T00636310 in the box.

4) If there is an agent, please fill in the Agent name and Agent ID in the appropriate section.
5) Pay the application fee.
6) Submit the application form.

Application support documents:
1) Please send:
   a. High school transcript
   b. ALL post-secondary transcripts
   c. Proof of language proficiency (IELTS, TOEFL)
   by email to iapply@tru.ca.

   * Original transcripts or attested copies from the respective Registrar must be provided before student's arrival at TRU.

2) When emailing the support documents, write "TNE partner: IKGPTU" and student name in the subject line of the email.

PRE-ACCEPTANCE
TRU will send a pre-acceptance letter indicating
- the program to which student has been accepted and
- any conditions of such acceptance.

ADMISSION INTERVIEW
For the IKG-PTU BEng transfer program, the faculty may request an interview with the applicant student.

PAYMENT of TRU FEES
All required fees for the first semester of study as outlined in the pre-acceptance letter must be submitted to TRU. Tuition fees can be paid by bank transfer (noting TRU student number), or through student MyTRU account, or by credit card by contacting the TRU Cashier (1-250-371-5646).

After payment, student should notify International Admissions of payment of fees (iapply@tru.ca) indicating "TNE partner IKGPTU and TRU student number" in the subject line of the email.

FINAL ACCEPTANCE
Upon receiving full payment of tuition and general fees, TRU will send an official letter of acceptance to student.

TRU COURSE REGISTRATION for PARTNER STUDENTS
Upon final acceptance, students in IKG-PTU transfer program will then be permitted to be registered into TRU courses once course registration opens in June for fall semester. Students must contact their TRU Program Advisor (Dr. Faheem Ahmed) once final acceptance is confirmed, to plan courses for first semester at TRU. For IKG-PTU transfer students, for this first semester at TRU only, course registration will be handled by International Admissions team. (In future semesters, students will self-register).

STUDY PERMIT CONFIRMATION
Study permit confirmations MUST be provided to TRU by July 31 for students to remain registered in their courses.
> Check at https://www.tru.ca/truworld/future-students/dates-fees.html to confirm study permit deadlines.