

ANNEX TO THE MEMORANDUM OF CO-OPERATION
Between

BLEKINGE INSTITUTE OF TECHNOLOGY

and

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

**ANNEX ON DOUBLE DEGREE MASTERS PROGRAMME
IN SIGNAL PROCESSING**

The forenamed schools/departments of Blekinge Institute of Technology (BTH), Sweden, and Jawaharlal Nehru Technological University Kakinada (JNTUK), India (hereafter “the parties” or “the institutions”) agree on the following:

1. The Validity of this Annex

1.1. This entire Annex is subject to the validity, terms and condition of the Memorandum of Cooperation signed by the Vice-Chancellors of Blekinge Institute of Technology and Jawaharlal Nehru Technological University Kakinada (hereafter “the Memorandum of Cooperation”).

1.2. In cases where the terms and conditions of the Memorandum of Cooperation and the terms and conditions of this Annex differ, the terms and conditions of the Memorandum of Cooperation shall prevail.

1.3. If and when the Memorandum of Cooperation ceases to be valid, this Annex will also cease to be valid.

1.4. This Annex enters into force once it has been duly signed by representatives of the parties, provided the Memorandum of Cooperation is in force.

1.5. This Annex and the agreement(s) contained within it will be valid until 2014. During this period, the parties may sign additional Annexes should they wish, or renew this Annex in writing.

1.6. This Annex and the agreement contained within it can be terminated by either party giving written notice to the other party before 31 December of any year of its intention to withdraw with effect from 1 September the next year.

2. Double Degree Program

The double degree program (hereinafter referred to as the “DDP”) described by this Annex is limited to the fields of Engineering and based on the following two existing Masters Programs:

Master of Science in Electrical Engineering with emphasis on Signal Processing at BTH

Master of Technology in Signal Processing at JNTUK

The DDP fulfills the requirement for PhD studies in the discipline and fulfills requirements of Swedish Higher Education at BTH, Sweden and Jawaharlal Nehru Technological University, India.

The DDP within signal processing will be jointly conducted by Blekinge Institute of Technology, Sweden and Jawaharlal Nehru Technological University Kakinada, India, as per the following modalities:

2.1. Program Structure

The duration of the DDP will be of 4 semesters/24 months, including studies at BTH and at JNTUK according to the following:

SEMESTER	TYPE OF STUDY	PLACE OF STUDY	COUNTRY
I	Course work	Jawaharlal Nehru Technological University Kakinada	INDIA
II	Course work	Blekinge Institute of Technology	SWEDEN
III	Course work	Blekinge Institute of Technology	SWEDEN
IV	Thesis#	Jawaharlal Nehru Technological University Kakinada or Blekinge Institute of Technology	INDIA OR SWEDEN

Option open to the choice of students of both the universities

Note:

Masters thesis work can be done within industry or at research centers under the supervision of either JNTUK or BTH.

The student has to complete the programme within double the regular period.

2.2. Curricula/Syllabus

The curricula and syllabus is developed jointly by the BTH, Sweden and JNTUK, India and based on courses offered by the respective institutions.

2.3. Number of Seats

The number of seats available within the DDP will be decided and documented in writing on a yearly basis by the Executive Committee.

2.4. Application and Admission to the DDP

2.4.1. Admission Procedure

Each institution will be responsible for nominating students from its own institution for participation in the DDP. It will, however, only be when a student is also approved by the other party that the student will be admitted to the DDP. The Admission procedure will be done under the joint supervision of the universities. All applications should be submitted to the application data base “VEGA- bilateral agreements”, developed by BTH and available on BTH’s web-site www.bth.se.

2.4.2. Application Dead-line

Students interested in participation in the DDP should submit their on-line application no later than April 15 (For Swedish Students) and July 15 (For Indian Students)

2.4.3. Admission Requirements

Degree requirements:

Bachelor of Science in Technology /Bachelor in Engineering - Electronics and Communications, Telecommunications, Instrumentation, or equivalent#.

The degree should include at least 30 ECTS (one semester) credits of mathematics with multi-dimensional analysis, transform theory and mathematical statistics. Basic knowledge Signal Processing, Telecommunications and programming is required.

Decision subjected to the Academic Committee.

Language requirements:

For students from JNTU: Education in “English” as medium of instruction from secondary and intermediate level (10+2) to the university level or by the recommendation of either of the parties.

For students from BTH: English “A” or by the recommendation of either of the parties.

The students’ background as well as marks in Qualifying Exam, will be taken into consideration for the selection to the DDP.

2.5. Examination, forms of assessment and grading system

The performance of the candidate will be evaluated course wise. Each course will have independent evaluation systems. The evaluation will be done as per their performance in end theory examinations, laboratory examinations, assignments, project reports etc. The grading will be done as per ECTS (European

Credit Transfer System) at Blekinge Institute of Technology and similar uniform credit systems will be adopted by the JNTUK.

ECTS- GRADE	DEFINITION OF THE GRADE.	
A	Excellent	Outstanding performance with only minor errors
B	Very Good	Above the average standard but with some minor errors
C	Good	Generally sound work with a number of notable errors
D	Satisfactory	Fair but with some significant shortcomings
E	Sufficient	Performance meets with minimum criteria
F	Fail	Some more work required before the credit can be Awarded
Fx	Fail	Considerable further work is required

2.6. Award of Degree

A student who has successfully completed the DDP and who fulfils the requirements for a degree at both institutions shall have the possibility of receiving degrees from both institutions, i.e.:

Master of Science in Electrical Engineering with emphasis on Signal Processing by BTH
(Degree awarded as per Swedish Higher Education Act)

Master of Technology in Signal Processing by JNTUK abbreviated as M.Tech in Signal Processing

2.7. Tuition fee

Both parties agree to exempt tuition fees for students of each institution enrolled in the DDP. The institutions are independent to frame their own fee structure for their domestic students.

2.8. Accommodation

Both the parties shall provide student accommodation for each others students, provided that applications for student accommodation are submitted within set dead-lines. All expenses for accommodation should be borne by the individual students.

The parties choose for purposes of this Agreement as their *domicilium citandi et executandi*, the following addresses:

Blekinge Institute of Technology
Campus Gräsvik 1
371 79 Karlskrona
Sweden

Jawaharlal Nehru Technological University Kakinada
Kakinada- 533003
Andhra Pradesh
India

7 Signed in 18.11.2003
5 On the Karlskrona

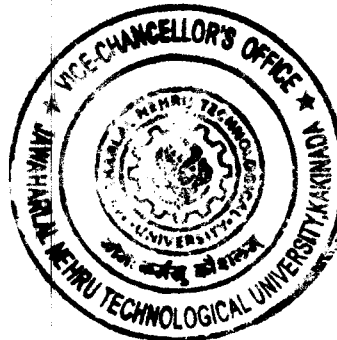
Kakinada, India (place)
25th April, 2009 (date)

[Signature]

[Signature]

Dr. Ursula Hass
Vice-Chancellor
Blekinge Institute of Technology

Dr. Allam Appa Rao
Vice-Chancellor
Jawaharlal Nehru Technological University Kakinada



MEMORANDUM OF CO-OPERATION

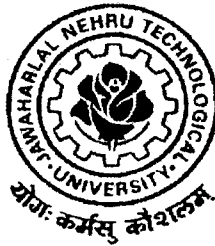
between



Blekinge Institute of Technology
Karlskrona, Blekinge, SWEDEN,

Established by the Government of Sweden

and



Jawaharlal Nehru Technological University- Kakinada,
Andhra Pradesh, India,

Established by the Government of Andhra Pradesh, India

MEMORANDUM OF CO-OPERATION BETWEEN

BLEKINGE INSTITUTE OF TECHNOLOGY

herein duly represented by

Dr. Ursula Hass
(*Vice-Chancellor*)

and

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA

herein duly represented by

Prof. Allam Appa Rao
(*Vice -Chancellor*)

Blekinge Institute of Technology, BTH and Jawaharlal Nehru Technological University- Kakinada, JNTUK (hereinafter "the parties" / "institutions"), inspired by the extensive possibilities offered by international co-operation, recognize the need to develop and nurture new partnerships and to share human and material resources, with the aim to promote international understanding and contribute to the pool of global knowledge.

In the spirit of this challenge and responsibility, the parties acknowledge the similarities in the scholarly pursuits of the institutions and desire to promote inter-institutional co-operation, scientific and cultural exchange, as well as mutual understanding and respect.

The parties therefore join in the following Agreement:

Article 1

This Agreement, together with its annexes, represents the total Agreement between the parties.

Article 2

The two parties /organizations shall establish and encourage mutually beneficial scientific, technological, educational and other relations based on the following activities:

- Exchange of academic staff members for the purpose of research, teaching and/or the presentation of special courses in their fields of specialization.
- Exchange of undergraduate students.
- Establishment of joint educational and/or research programs/projects
- Exchange of postgraduate students.
- Exchange of scientific and educational literature produced by either or both of the parties/organizations, as well as the exchange of material on research undertaken by researchers of both institutions.
- Organization of conferences, seminars and symposia of mutual interest to the institutions.

Article 3

In each case, the specific content and conditions for a joint activity shall be determined collaboratively by the two parties and documented in annexes to the present Agreement.

The number of members of staff to participate in a visit or exchange programme, their sojourn and conditions of service shall be negotiated in each case, with due consideration for the capabilities and needs of the individuals and the institutions concerned. Unless otherwise agreed upon, the salaries and fringe benefits of members of staff to participate in a visit or exchange programme shall be the responsibility of the home institution.

The number of students to participate in an exchange program, their sojourn and areas of study shall be negotiated in each case, with due consideration for the capabilities and needs of the individuals and the institutions concerned.

The parties shall, within appropriate application deadlines, endeavour to provide adequate and reasonable accommodation for exchange staff and students. Unless otherwise agreed upon between the parties, costs for board (meals), travel and accommodation for exchange students shall be the responsibility of the individual student(s). Costs for accommodation for members of staff to participate in a visit or exchange programme shall be the responsibility of the home institution unless otherwise agreed upon between the parties. The parties shall endeavour to provide access to facilities such as libraries and the Internet to exchange staff and students. Unless otherwise agreed upon between the parties, exchange students shall be exempted from tuition fees.

Article 4

Both parties accept that financial arrangements shall be negotiated in each case and shall be dependent on the availability of funds.

The parties shall aim to find sources of financial assistance for the activities and exchanges to be undertaken in the terms of this Agreement.

Article 5

All activities conducted under the present MoC shall be subjected to the laws and regulations of the respective countries and relevant international laws. Should new laws or regulations affecting the content of the present Agreement come in to effect in either of the two countries during the duration of the Agreement, the content of the Agreement will change accordingly. This also includes treatment of the intellectual property right (hereinafter referred to as "IPR") Details of IPR arrangements shall be mutually agreed upon and documented in annexes to the present MoC.

Article 6

Either party shall not be held liable to compensate for injury, death, damage or loss of property of the other party caused while implementing a project under the MoC due to an accident or for any reason, excluding willful misconduct or negligence.

Article 7

The representatives of the parties, or their authorized substitutes, shall meet frequently at suitable times to evaluate the implementation of this Agreement and to decide on changes or additions thereto, which will not be of any force or effect unless in writing and signed by the representatives of both parties. For the smooth execution and continuation of the activities under the present MoC, two committees will be constituted:

1. An Executive Committee:

Will consist of four members which include four members from JNTUK and four members from BTH. The Executive Committee will be a policy making committee including academics, finances and new schemes / proposals between the two parties.

2. An Academic Committee:

Will consist of four members which include two members from JNTUK and two members from BTH. The Academic Committee will examine all academic matters including formation of the syllabi, evaluation and admissions process etc.

Article 8

This Memorandum shall be considered for review after a period of 5 years.

Article 9

This Agreement shall come into effect when the authorized representatives of both parties have signed it. Either party may withdraw from the Agreement by giving written notice before 31 December of any year of its intention to withdraw with effect from 1 September the next year.

Article 10

All letters, drawings, reports and other documents executed for the implementation of the MoC and all bilateral discussions conducted between the parties shall be in English.

Article 11

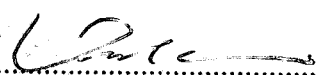
The parties choose for purposes of this Agreement as their *domicilium citandi et executandi*, the following addresses:


Blekinge Institute of Technology
Campus Gräsvik 1
371 79 Karlskrona
Sweden

Jawaharlal Nehru Technological University Kakinada
Kakinada - 533 003
Andhra Pradesh
India

Signed in (place)

On the (date)


.....


.....

Dr. Ursula Hass
Blekinge Institute of Technology

Prof. Allam Appa Rao
Jawaharlal Nehru Technological University Kakinada

