



**DEPARTMENT OF  
COMPUTER SCIENCE & ENGINEERING  
TEZPUR UNIVERSITY**

NAPAAM, TEZPUR-784028  
ASSAM : INDIA

This is to certify that **Barsha Das** (CSM11056) has prepared the dissertation report entitled "**Phoneme to Phoneme & Grapheme to Grapheme Conversion techniques for Bangla**". This work was done under the supervision and guidance of **Dr. Smriti Kumar Sinha, Professor**, (Tezpur University), **Mr. Joyanta Basu** and **Mr. Milton Samirakshma Bepari** (Advanced Speech Processing Section, CDAC Kolkata).

The dissertation is the result of their efforts and endeavours. The dissertation is found worthy of acceptance for the completion of their major project in **Master of Computer Application (MCA)**.

(Internal Project Guide)

**Dr Smriti Kumar Sinha**  
Professor,  
(Tezpur University)  
Date:

(External Project Guide)

*Joyanta Basu.*  
**Mr. Joyanta Basu**  
(CDAC Kolkata)

Date: 09/05/2014

**Mr. Milton Samirakshma Bepari**  
(CDAC Kolkata)

Date: 09-05-2014



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## CERTIFICATE OF ACCEPTANCE

This is to certify that Barsha Das (CSM11056) of Computer Science & Engineering Department of Tezpur university has worked under the supervision of **Mr. Joyanta Basu** and **Mr. Milton Samirakshma Bepari** of Advanced Speech Processing Section, CDAC Kolkata and **Dr. Smriti Kumar Sinha** of Tezpur university and has successfully completed the project entitled “**PHONEME TO PHONEME & GRAPHEME TO GRAPHEME CONVERSION TECHNIQUES**”.

The dissertation is the result of their efforts and endeavours. The dissertation is found worthy of acceptance for the completion of their major project in **Master of Computer Application (MCA)**.

**DATE :**

**PLACE :** Tezpur University, Tezpur

  
**Dr. SYAMANTA M HAZARIKA**

**Associate Professor**

**HOD Department of CSE**

**Tezpur University**



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CERTIFICATE

This dissertation entitled **Phoneme to Phoneme & Grapheme to Grapheme Conversion techniques for Bangla** submitted by Barsha Das (CSM11056) in partial fulfilment of requirements for the degree of Master of Computer Application (MCA) of Tezpur University has been examined.

Internal Examiner

Date:

Place: Tezpur University, Tezpur

External Examiner

Date: **EXTERNAL**

Place: **EXAMINER**

*Professor*

Department of Computer Science & Engineering

Tezpur University, Tezpur



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**DECLARATION**

We hereby declare that the dissertation work entitled “**Phoneme to Phoneme & Grapheme to Grapheme Conversion Techniques for Bangla.**” is submitted to the Department of Computer Science & Engineering, Tezpur University is prepared by us and was not submitted to any other Institute or University for the award of any other degree or diploma.

**Date:** 26.05.2014

**Place:** Tezpur University

*Barsha Das*

**Barsha Das (CSM11056)**

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Barsha Das (CSM11056)  
MCA 6<sup>th</sup> Semester  
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