

Ph – (0389) 2315212/2322257/2327095

Fax No – (0389) 2315212



**PACHHUNGA UNIVERSITY COLLEGE
(CONSTITUENT COLLEGE OF MIZORAM UNIVERSITY)
AIZAWL - 796001: MIZORAM**

Dated, Aizawl 16th April, 2017

Certificate

April, 2017

I hereby certify that the minor research project entitled '*Modeling investors behavior in bull financial markets.*' is a record done by L.D Byhnasa, Roll No. 1401BS186, VI-Semester, Department of Statistics, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the principal Investigator.

(Dr. ANUPAM KUMAR)

Head of Department

(ISAAC LALLAWMZUALA)

Supervisor

Place: Aizawl

Date: 16th April, 2017

Ph – (0389) 2315212/2322257/2327095
Fax No – (0389) 2315212



**PACHHUNGA UNIVERSITY COLLEGE
(CONSTITUENT COLLEGE OF MIZORAM UNIVERSITY)
AIZAWL - 796001: MIZORAM**

Dated, Aizawl 16th April, 2017

Certificate

April, 2017

I hereby certify that the minor research project entitled '*High-frequency trading in financial markets: assessing its effectiveness using a statistical approach.*' is a record done by Lalsangzuala, Roll No. 1401BS191, VI-Semester, Department of Statistics, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the principal Investigator.

(Dr. ANUPAM KUMAR)
Head of Department

(ISAAC LALLAWMZUALA)
Supervisor

Place: Aizawl

Date: 16th April, 2017

Ph – (0389) 2315212/2322257/2327095

Fax No – (0389) 2315212



**PACHHUNGA UNIVERSITY COLLEGE
(CONSTITUENT COLLEGE OF MIZORAM UNIVERSITY)
AIZAWL - 796001: MIZORAM**

Dated, Aizawl 16th April, 2017

Certificate

April, 2017

I hereby certify that the minor research project entitled '*An exploration of stochastic multi-agent model in financial markets.*' is a record done by R. Lalremruata, Roll No. 1401BS194, VI-Semester, Department of Statistics, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the principal Investigator.

(Dr. ANUPAM KUMAR)

Head of Department

(ISAAC LALLAWMZUALA)

Supervisor

Place: Aizawl

Date: 16th April, 2017

Ph – (0389) 2315212/2322257/2327095

Fax No – (0389) 2315212



**PACHHUNGA UNIVERSITY COLLEGE
(CONSTITUENT COLLEGE OF MIZORAM UNIVERSITY)
AIZAWL - 796001: MIZORAM**

Dated, Aizawl 16th April, 2017

Certificate

April, 2017

I hereby certify that the minor research project entitled '*Modern advances in application of econometrics and artificial intelligence in financial markets.*' is a record done by V. Lalremruata, Roll No. 1401BS196, VI-Semester, Department of Statistics, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the principal Investigator.

(Dr. ANUPAM KUMAR)

Head of Department

(ISAAC LALLAWMZUALA)

Supervisor

Place: Aizawl

Date: 16th April, 2017

Ph – (0389) 2315212/2322257/2327095

Fax No – (0389) 2315212



**PACHHUNGA UNIVERSITY COLLEGE
(CONSTITUENT COLLEGE OF MIZORAM UNIVERSITY)
AIZAWL - 796001: MIZORAM**

Dated, Aizawl 16th April, 2017

Certificate

April, 2017

I hereby certify that the minor research project entitled '*Analyzing the effects of methamphetamine on substance abusers: a statistical approach.*' is a record done by Alan Zothansanga, Roll No. 1401BS19, VI-Semester, Department of Statistics, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the principal Investigator.

(Dr. ANUPAM KUMAR)

Head of Department

(ISAAC LALLAWMZUALA)

Supervisor

Place: Aizawl

Date: 16th April, 2017

Ph – (0389) 2315212/2322257/2327095

Fax No – (0389) 2315212



**PACHHUNGA UNIVERSITY COLLEGE
(CONSTITUENT COLLEGE OF MIZORAM UNIVERSITY)
AIZAWL - 796001: MIZORAM**

Dated, Aizawl 16th April, 2017

Certificate

April, 2017

I hereby certify that the minor research project entitled '*A statistical evaluation of life expectancy among long-term smokers.*' is a record done by B.S. Lalramzaua, Roll No. 1401BS199, VI-Semester, Department of Statistics, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the principal Investigator.

(Dr. ANUPAM KUMAR)

Head of Department

(ISAAC LALLAWMZUALA)

Supervisor

Place: Aizawl

Date: 16th April, 2017

Ph – (0389) 2315212/2322257/2327095

Fax No – (0389) 2315212



**PACHHUNGA UNIVERSITY COLLEGE
(CONSTITUENT COLLEGE OF MIZORAM UNIVERSITY)
AIZAWL - 796001: MIZORAM**

Dated, Aizawl 16th April, 2017

Certificate

April, 2017

I hereby certify that the minor research project entitled '*Examining the effects of performance enhancing drugs on athletes: a statistical approach.*' is a record done by Ben Lalremruata, Roll No. 1401BS200, VI-Semester, Department of Statistics, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the principal Investigator.

(Dr. ANUPAM KUMAR)

Head of Department

(ISAAC LALLAWMZUALA)

Supervisor

Place: Aizawl

Date: 16th April, 2017

Ph – (0389) 2315212/2322257/2327095

Fax No – (0389) 2315212



**PACHHUNGA UNIVERSITY COLLEGE
(CONSTITUENT COLLEGE OF MIZORAM UNIVERSITY)
AIZAWL - 796001: MIZORAM**

Dated, Aizawl 16th April, 2017

Certificate

April, 2017

I hereby certify that the minor research project entitled '*Statistical evaluation of effectiveness of chemotherapy among leukaemic children.*' is a record done by C. Lalrinmawia, Roll No. 1401BS201, VI-Semester, Department of Statistics, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the principal Investigator.

(Dr. ANUPAM KUMAR)

Head of Department

(ISAAC LALLAWMZUALA)

Supervisor

Place: Aizawl

Date: 16th April, 2017

Ph – (0389) 2315212/2322257/2327095

Fax No – (0389) 2315212



**PACHHUNGA UNIVERSITY COLLEGE
(CONSTITUENT COLLEGE OF MIZORAM UNIVERSITY)
AIZAWL - 796001: MIZORAM**

Dated, Aizawl 16th April, 2017

Certificate

April, 2017

I hereby certify that the minor research project entitled '*Gene markers for ovarian cancer: assessing their effectiveness and the probability of developing the disease.*' is a record done by C. Lalzirliana, Roll No. 1401BS202, VI-Semester, Department of Statistics, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the principal Investigator.

(Dr. ANUPAM KUMAR)

Head of Department

(ISAAC LALLAWMZUALA)

Supervisor

Place: Aizawl

Date: 16th April, 2017

Ph – (0389) 2315212/2322257/2327095

Fax No – (0389) 2315212



**PACHHUNGA UNIVERSITY COLLEGE
(CONSTITUENT COLLEGE OF MIZORAM UNIVERSITY)
AIZAWL - 796001: MIZORAM**

Dated, Aizawl 16th April, 2017

Certificate

April, 2017

I hereby certify that the minor research project entitled '*Comparing the effectiveness of breastfeeding versus infant formulas on child development.*' is a record done by Lalhmangaihtluanga, Roll No. 1401BS204, VI-Semester, Department of Statistics, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the principal Investigator.

(Dr. ANUPAM KUMAR)

Head of Department

(ISAAC LALLAWMZUALA)

Supervisor

Place: Aizawl

Date: 16th April, 2017

Ph – (0389) 2315212/2322257/2327095

Fax No – (0389) 2315212



**PACHHUNGA UNIVERSITY COLLEGE
(CONSTITUENT COLLEGE OF MIZORAM UNIVERSITY)
AIZAWL - 796001: MIZORAM**

Dated, Aizawl 16th April, 2017

Certificate

April, 2017

I hereby certify that the minor research project entitled '*Cancer treatment: comparative assessment of orthodox therapies versus alternative therapies.*' is a record done by Lalremliana, Roll No. 1401BS205, VI-Semester, Department of Statistics, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the principal Investigator.

(Dr. ANUPAM KUMAR)

Head of Department

(ISAAC LALLAWMZUALA)

Supervisor

Place: Aizawl

Date: 16th April, 2017

Ph – (0389) 2315212/2322257/2327095

Fax No – (0389) 2315212



**PACHHUNGA UNIVERSITY COLLEGE
(CONSTITUENT COLLEGE OF MIZORAM UNIVERSITY)
AIZAWL - 796001: MIZORAM**

Dated, Aizawl 16th April, 2017

Certificate

April, 2017

I hereby certify that the minor research project entitled '*Role of genetics in surviving prevalent forms of cancer: exploring lung cancer as an example.*' is a record done by Lawmsangzuala, Roll No. 1401BS207, VI-Semester, Department of Statistics, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the principal Investigator.

(Dr. ANUPAM KUMAR)

Head of Department

(ISAAC LALLAWMZUALA)

Supervisor

Place: Aizawl

Date: 16th April, 2017

Ph – (0389) 2315212/2322257/2327095

Fax No – (0389) 2315212



**PACHHUNGA UNIVERSITY COLLEGE
(CONSTITUENT COLLEGE OF MIZORAM UNIVERSITY)
AIZAWL - 796001: MIZORAM**

Dated, Aizawl 16th April, 2017

Certificate

April, 2017

I hereby certify that the minor research project entitled '*Genetic testing and analysis: measuring the effectiveness using a statistical approach.*' is a record done by Rochansanga, Roll No. 1401BS209, VI-Semester, Department of Statistics, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the principal Investigator.

(Dr. ANUPAM KUMAR)

Head of Department

(ISAAC LALLAWMZUALA)

Supervisor

Place: Aizawl

Date: 16th April, 2017

Ph – (0389) 2315212/2322257/2327095

Fax No – (0389) 2315212



**PACHHUNGA UNIVERSITY COLLEGE
(CONSTITUENT COLLEGE OF MIZORAM UNIVERSITY)
AIZAWL - 796001: MIZORAM**

Dated, Aizawl 16th April, 2017

Certificate

April, 2017

I hereby certify that the minor research project entitled '*What factors can help improve individual survival rates for lung cancer sufferers?.*' is a record done by Vanlalhriatsaka, Roll No. 1401BS210, VI-Semester, Department of Statistics, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the principal Investigator.

(Dr. ANUPAM KUMAR)

Head of Department

(ISAAC LALLAWMZUALA)

Supervisor

Place: Aizawl

Date: 16th April, 2017

Ph – (0389) 2315212/2322257/2327095

Fax No – (0389) 2315212



**PACHHUNGA UNIVERSITY COLLEGE
(CONSTITUENT COLLEGE OF MIZORAM UNIVERSITY)
AIZAWL - 796001: MIZORAM**

Dated, Aizawl 16th April, 2017

Certificate

April, 2017

I hereby certify that the minor research project entitled '*The haves versus the have-nots: does the choice of a spouse affect family economic fortunes in the future?.*' is a record done by Vanlalrotluanga, Roll No. 1401BS211, VI-Semester, Department of Statistics, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the principal Investigator.

(Dr. ANUPAM KUMAR)

Head of Department

(ISAAC LALLAWMZUALA)

Supervisor

Place: Aizawl

Date: 16th April, 2017

Ph – (0389) 2315212/2322257/2327095

Fax No – (0389) 2315212



**PACHHUNGA UNIVERSITY COLLEGE
(CONSTITUENT COLLEGE OF MIZORAM UNIVERSITY)
AIZAWL - 796001: MIZORAM**

Dated, Aizawl 16th April, 2017

Certificate

April, 2017

I hereby certify that the minor research project entitled '*Generic versus private education: how can education be tailored to improve individual skills and financial outcome?*.' is a record done by C. Vansangkimi, Roll No.1401BS21, VI-Semester, Department of Statistics, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the principal Investigator.

(Dr. ANUPAM KUMAR)

Head of Department

(ISAAC LALLAWMZUALA)

Supervisor

Place: Aizawl

Date: 16th April, 2017

Ph – (0389) 2315212/2322257/2327095

Fax No – (0389) 2315212



**PACHHUNGA UNIVERSITY COLLEGE
(CONSTITUENT COLLEGE OF MIZORAM UNIVERSITY)
AIZAWL - 796001: MIZORAM**

Dated, Aizawl 16th April, 2017

Certificate

April, 2017

I hereby certify that the minor research project entitled '*Psychology versus physiology: why do long-term smokers find it difficult to quit?*' is a record done by Lalnunsiami, Roll No. 1401BS214, VI-Semester, Department of Statistics, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the principal Investigator.

(Dr. ANUPAM KUMAR)

Head of Department

(ISAAC LALLAWMZUALA)

Supervisor

Place: Aizawl

Date: 16th April, 2017

Ph – (0389) 2315212/2322257/2327095

Fax No – (0389) 2315212



**PACHHUNGA UNIVERSITY COLLEGE
(CONSTITUENT COLLEGE OF MIZORAM UNIVERSITY)
AIZAWL - 796001: MIZORAM**

Dated, Aizawl 16th April, 2017

Certificate

April, 2017

I hereby certify that the minor research project entitled '*Nature versus nurture: does regular training result in superior performance in athletics or is it simply innate talent?*' is a record done by Lalsiamzuali, Roll No. 1401BS215, VI-Semester, Department of Statistics, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the principal Investigator.

(Dr. ANUPAM KUMAR)

Head of Department

(ISAAC LALLAWMZUALA)

Supervisor

Place: Aizawl

Date: 16th April, 2017

Ph – (0389) 2315212/2322257/2327095

Fax No – (0389) 2315212



**PACHHUNGA UNIVERSITY COLLEGE
(CONSTITUENT COLLEGE OF MIZORAM UNIVERSITY)
AIZAWL - 796001: MIZORAM**

Dated, Aizawl 16th April, 2017

Certificate

April, 2017

I hereby certify that the minor research project entitled '*The battle of the milk: a comparative assessment of effects of breast milk versus infant formulas on child development.*' is a record done by Lalvenmawii, Roll No. 1401BS216, VI-Semester, Department of Statistics, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the principal Investigator.

(Dr. ANUPAM KUMAR)

Head of Department

(ISAAC LALLAWMZUALA)

Supervisor

Place: Aizawl

Date: 16th April, 2017

Ph – (0389) 2315212/2322257/2327095

Fax No – (0389) 2315212



**PACHHUNGA UNIVERSITY COLLEGE
(CONSTITUENT COLLEGE OF MIZORAM UNIVERSITY)
AIZAWL - 796001: MIZORAM**

Dated, Aizawl 16th April, 2017

Certificate

April, 2017

I hereby certify that the minor research project entitled '*Predisposition to drug abuse: comparing the contributing impact of living in poor versus wealthy communities.*' is a record done by Melody Lalnunsangi, Roll No. 1401BS217, VI-Semester, Department of Statistics, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the principal Investigator.

(Dr. ANUPAM KUMAR)

Head of Department

(ISAAC LALLAWMZUALA)

Supervisor

Place: Aizawl

Date: 16th April, 2017

Ph – (0389) 2315212/2322257/2327095

Fax No – (0389) 2315212



**PACHHUNGA UNIVERSITY COLLEGE
(CONSTITUENT COLLEGE OF MIZORAM UNIVERSITY)
AIZAWL - 796001: MIZORAM**

Dated, Aizawl 16th April, 2017

Certificate

April, 2017

I hereby certify that the minor research project entitled '*Infant mortality rate: mitigating the risk factors in developing countries.*' is a record done by Vanlaltanpuui, Roll No. 1401BS218, VI-Semester, Department of Statistics, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the principal Investigator.

(Dr. ANUPAM KUMAR)

Head of Department

(ISAAC LALLAWMZUALA)

Supervisor

Place: Aizawl

Date: 16th April, 2017