



GURUDAS COLLEGE

(GOVT. SPONSORED)
NARIKELDANGA, KOLKATA-700 054

Ref. No. GSC/

Date :

This is to certify that ⁽¹²⁾ Honours students in the Department of Philosophy have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of CC 4 / GE / AECC / ENVS in Part / Semester II under our supervision in Calcutta University B.A. / B.Sc. / B.Com—Honours /General Examination in the academic session 2018-2019.

Name of the Project Topics:

- 1) Innate Ideas - According to Locke - Analysis & Examination.
- 2) Primary & Secondary Quality → Comparative discussion between Locke & Berkeley.
- 3) Difference between Judgements.
- 4) The Role of God → How it is justified by Berkeley.
- 5) Copernican Revolution.
- 6) Theory of Causality.
- 7)
- 8)
- 9)
- 10)

Amiti Das
Pramita Majumdar (Signature)
Signature of the Supervisors

Pramita Majumdar (Signature)
Signature of HOD

[Signature]
Signature of Principal
Gurudas College
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Kolkata-54



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NARIKELDANGA, KOLKATA-700 054

Ref. No. GSC/

Date :

This is to certify that ⁽³²⁾ General students in the Department of Philosophy have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of CC 4 / GE 1 / AECC 1 / ENVS in Part / Semester I under our supervision in Calcutta University B.A. / B.Sc. / B.Com—Honours /General Examination in the academic session 2018-2019.

Name of the Project Topics:

- 1) No-soul Theory.
- 2) Comparative discussion between Samanya & Nisesa.
- 3)
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Aditi
Paramita
Signature of the Supervisors

Paramita
Signature of HOD

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Signature of the Principal
Principal
Gurudas College
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Kolkata-54



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Ref. No. GSC/

Date :

This is to certify that ⁽³²⁾ General students in the Department of Philosophy have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of CC 1/2 / GE 2 / AECC 1 / ENVS in Part / Semester II under our supervision in Calcutta University B.A. / B.Sc. / B.Com—Honours /General Examination in the academic session 2018-2019.

Name of the Project Topics:

- 1) Comparative discussion between Entailment & Regularity Theory.
- 2) Comparative discussion between Realism & Idealism.
- 3)
- 4)
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Aditi De

Parnamita Majumdar

Signature of the Supervisors

Parnamita Majumdar

Signature of HOD

Aditi De

Signature of the Principal
Principal
Gurudas College
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GURUDAS COLLEGE

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Ref. No. GSC/

Date : 16/7/19

This is to certify that 339 students in the Department of Commerce have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of ~~CC~~ / ~~GE~~ / ~~AECC~~ / ENVS in Part / Semester II under our supervision in Calcutta University ~~B.A. / B.Sc. / B.Com~~ Honours / General Examination in the academic session 2018-19.

Name of the Project Topics:

- 1) Ozone Layer Depletion
- 2) Use of preservatives and its effects
- 3) Ground water Crisis and its remedies
- 4) Mosquito borne disease with special reference Dengue.
- 5) Environmental education and public awareness.
- 6) Sound pollution and its prevention.
- 7) Air pollution and its effect on public health
- 8) Plastic pollution and its remedies
- 9) Land Crisis
- 10) Drainage problem

G. Santra. 16/7/19.

Signature of the Supervisors

16/7/19

Signature of HOD

Principal
Gurudas College
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Kolkata-54

Signature of the Principal



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Ref. No. GSC/

Date: 16/7/19

This is to certify that 105 students in the Department of COMMERCE have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of ~~CC~~ / ~~GE~~ / ~~AEGC~~ / ~~ENVS~~ in Part / Semester A35A (Part II) under our supervision in Calcutta University B.A. / B.Sc. / B.Com - Honours / General Examination in the academic session 2018-19.

Name of the Project Topics:

- 1) Demonetization in the Indian Economy.
- 2) Overview of Goods and Services Tax.
- 3) Digital India
- 4) Empowerment through SHGs.
- 5) Working Capital Management of Companies.
- 6) CSR.
- 7) e-Governance.
- 8) Financial Statement Analysis of Companies.
- 9) Consumer Behaviour of different companies.
- 10) Marketing Strategies of Indian Companies.

[Signature]
16/7/19.

[Signature]
16/7/19

Signature of the Supervisors

[Signature]
16/7/19

Signature of HOD

[Signature]
Principal
Gurudas College
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Signature of the Principal



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Ref. No. GSC/

Date :

This is to certify that 38 students in the Department of Journalism & Mass com have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of CC II / GE ___ / AECC ___ / ENVS in Part / Semester I under our supervision in Calcutta University B.A. / B.Sc. / B.Com—Honours /General Examination in the academic session 2018-2019.

Name of the Project Topics:

- 1) Hickey and fellow Journalism
- 2) Hickey as the Papa of Indian Journalism
- 3) Contribution of Sandhya Patrika in Indian freedom struggle
- 4) Raja Rammohun Roy used his newspaper as social catalyst.
- 5) Journey of National Herald - Pre Independence to Post Independence
- 6) Hindu Patriot & Indigo Revolt
- 7) Serampore: Baptist Missionaries Press
- 8) Derazio and young Bengal Movement
- 9)
- 10)

AB
17.7.19
17.7.19
Signature of the Supervisors

Anurja Boro 17.7.19
Signature of HOD

Signature of the Principal
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Ref. No. GSC/

Date :

This is to certify that 36 students in the Department of Journalism & Mass Com have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of CC III / GE / AECC / ENVS. in Part / Semester II under our supervision in Calcutta University B.A. / B.Sc. / B.Com—Honours /General Examination in the academic session 2018-2019.

Name of the Project Topics:

- 1) Headline
- 2) crime & legal News
- 3) Page making
- 4) Features
- 5) social Media & youth
- 6) Semiotic school
- 7) Elements of News
- 8) News values
- 9) objectivity
- 10) Intro/lead

AS
17.7.19 AS
17.7.19
Signature of the Supervisors

Anujin Bose 17.7.19
Signature of HOD

[Signature]
Signature of the Principal
Principal
Gurudas College
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Ref. No. GSC/


Date :

This is to certify that 21 students in the Department of ~~Journalism & Mass Comm.~~ have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of CC ___ / GE II / AECC ___ / ENVS. in Part / Semester II under our supervision in Calcutta University B.A. / B.Sc. / B.Com—Honours / General Examination in the academic session 2018-2019.

Name of the Project Topics:

- 1) Newspaper ownership
- 2) Film Review
- 3) Book Review
- 4) Circulation
- 5) Classified Ad
- 6) Display Ad
- 7) Ad department of Newspapers.
- 8)
- 9)
- 10)


Signature of the Supervisors


Signature of HOD


Signature of Principal
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Ref. No. GSC/

Date :

This is to certify that (15) Honours students in the Department of Philosophy have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of CC I / GE / AECC / ENVS in Part / Semester I under our supervision in Calcutta University B.A. / B.Sc. / B.Com—Honours /General Examination in the academic session 2018-2019.

Name of the Project Topics:

- 1) Four Noble Truths - According to Buddhism.
- 2) Distinction between Laukika & Alaukika Samukhya.
- 3)
- 4)
- 5)
- 6)
- 7)
- 8)
- 9)
- 10)

A. K. Das
Paramita Majumdar (Calcutta)
Signature of the Supervisors

Paramita Majumdar (Calcutta)
Signature of HOD

[Signature]
Signature of the Principal
Gurudas College
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Ref. No. GSC/

Date : 19/07/19

This is to certify that 9 students in the Department of Economics have successfully completed and submitted project on one of the following topics as a part of Assessment of Honours Paper VIII B in Part 3 under our supervision in Calcutta University B.A. / B.Sc. / B.Com—Honours /General Examination in the academic session 2018-19

Name of the Project Topics:

- Performance of Small Scale Industries with respect to No. Of Units, Production, Employment and Exports in India during 1976 to 2006
- India's balance of payment from 2010/11 to 2017/18
- Trend in agricultural production, area under cultivation and yield per hectare of food grains and commercial crops during 1971-72 to 2017-18
- Sectoral Changes in Gross value added and Employment in India (1999- 2017)
- Effects of Trade Policy Reforms in India (1991-2017)
- Microfinance : working of SHGs in INDIA for the period of 2013-18
- Comparative analysis of various development indicators of KERALA and WEST BENGAL, between 2001 and 2011.
- GSDP Growth, Sectoral Growth and Its Relation With Poverty: Comparative Analysis of Some Selected States in the Post Reform Period
- A Study of Employment Pattern in the Organized and Unorganized Sector during 1981-2000

1. *Chenthan*
2. *Suparna Karunder*
3. *Rashi Banerjee*
4. *Debolina Biswas.*

Signature of the Supervisors

Chenthan

Signature of HOD

Principal

Signature of Principal
Gurudas College
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Ref. No. GSC/

Date :

This is to certify that 3 students in the Department of Economics have successfully completed and submitted project on one of the following topics as a part of Assessment of Honours Paper VIII B in Part 3 under our supervision in Calcutta University B.A. / B.Sc. / B.Com—Honours /General Examination in the academic session 2018-19

Name of the Project Topics:

- Agricultural Growth Rate of West Bengal for the period 1981-2012 and comparison of rural Poverty with Urban Poverty of West Bengal and India for the period 1981-2012
- Trade Liberalization effect on India
- Small Scale Industry of India post Liberalization

J. Harunder
Kanu Banerjee

Signature of the Supervisors

Debolina Biswas

[Signature]

Signature of the Principal
Principal
Gurudas College
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Kolkata-54



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Ref. No. GSC/

Date :

This is to certify that 07 students in the Department of SOCIOLOGY have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of CC 1 / GE / AECC / ENVS in Part / Semester I under our supervision in Calcutta University B.A. / B.Sc. / B.Com—Honours /General Examination in the academic session 2018-19.

Name of the Project Topics:

- 1) *Effects of multiculturalism in Indian society.*
- 2) *Sociology as a science.*
- 3) *Meaning and Agencies of Socialization*
- 4) *Culture and its types: folk and consumer culture.*
- 5) *Dalit movement*
- 6)
- 7)
- 8)
- 9)
- 10)

Santita Das
Nabanita Majumder Nabanita Majumder

Signature of the Supervisors

Signature of HOD

[Signature]

Signature of the Principal

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Kolkata-54



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Ref. No. GSC/

Date :

This is to certify that 04 students in the Department of SOCIOLOGY have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of CC 2 / GE / AECC / ENVS in Part / Semester I under our supervision in Calcutta University B.A. / B.Sc. / B.Com—Honours /General Examination in the academic session 2018-19.

Name of the Project Topics:

- 1) Disintegration of the Jajmani System
- 2) Effects of Sanskritization on the Indian caste system
- 3) The structure and changes in Indian villages
- 4) Role of religion in society
- 5)
- 6)
- 7)
- 8)
- 9)
- 10)

Sankita Das
Nabarna Majumder

Signature of the Supervisors

Nabarna Majumder

Signature of HOD

[Signature]

Signature of the Principal

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Ref. No. GSC/

Date : 17.7.19

This is to certify that 06 students in the Department of SOCIOLOGY have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of CC 3 / GE / AECC / ENVS in Part / Semester II under our supervision in Calcutta University B.A. / B.Sc. / B.Com—Honours /General Examination in the academic session 2018-19.

Name of the Project Topics:

- 1) Dahrendorf's conflict theory
- 2) Plurality of sociological perspective
- 3) Weber's types of authority and theory of social action.
- 4) Feminism in India Basic postulates of functionalist theory
- 5) Discussion on Talcott Parson's pattern variables
- 6)
- 7)
- 8)
- 9)
- 10)


Abantika Chakraverty
Santita Das

Nabaneta Majumder

Signature of the Supervisors

Nabaneta Majumder

Signature of HOD


Principal
Gurudas College
(Govt. Sponsored)
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Ref. No. GSC/

Date :

This is to certify that 06 students in the Department of SOCIOLOGY have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of CC 4 / GE / AECC / ENVS in Part / Semester II under our supervision in Calcutta University B.A. / B.Sc. / B.Com—Honours /General Examination in the academic session 2018-19.

Name of the Project Topics:

- 1) Indian middle class and their problems
- 2) Explaining Dalit politics in contemporary India
- 3) Principles of Secularism in India
- 4) Peasant movement in India
- 5) Meaning of nationalism in India
- 6) Secularism in India
- 7) Ambedkar's views on Dalit and
- 8) Hindu Society.
- 9)
- 10)

Abantika Bhattacharya
Saulita Das

Nabanona Majumder Nabanona Majumder

Signature of the Supervisors

Signature of HOD

Signature of the Principal
Principal
Gurudas College
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Ref. No. GSC/

Date :

This is to certify that 154 students in the Department of Sociology have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of CC ___ / GE 1 / AECC ___ / ENVS in Part / Semester I under our supervision in Calcutta University B.A. / B.Sc. / B.Com—Honours /General Examination in the academic session 2018-19.

Name of the Project Topics:

- 1) Nature and scope of sociology
- 2) Sociology and common sense
- 3) Relationship between sociology and history
- 4) Social change: Meaning and Agencies
- 5)
- 6)
- 7)
- 8)
- 9)
- 10)

Sambita Das
Nabanita Majumdar Nabanita Majumdar

Signature of the Supervisors

Signature of HOD

[Signature]
Signature of **Principal**
Gurudas College
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Kolkata-54



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Ref. No. GSC/

Date :

This is to certify that 154 students in the Department of sociology have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of GE-1 / GE 2 / AECC 1 / ENVS in Part / Semester _____ under our supervision in Calcutta University B.A. / B.Sc. / B.Com—Honours /General Examination in the academic session _____.

Name of the Project Topics:

- 1) Unity and Diversity in India
- 2) Sansekritization and the
- 3) Indian caste system
- 4) Dalit movement
- 5) Women's empowerment in India
- 6)
- 7)
- 8)
- 9)
- 10)

Abantika Chakrabarty
Nabawona Majumdar

Signature of the Supervisors

Nabawona Majumdar

Signature of HOD

Principal

Signature of the **Principal**
Gurudas College
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Kolkata-54



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Ref. No. GSC/

Date :

This is to certify that 44 students in the Department of HISTORY have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of CC I / GE / AECC / ENVS in Part / Semester I under our supervision in Calcutta University B.A. / B.Sc. / B.Com—Honours /General Examination in the academic session 2018-19.

Name of the Project Topics:

- 1) A study of inscriptions and coins of ancient India as sources and tools of historical reconstruction.
- 2) Town-Planning of the Harappan Civilization
- 3) The cultural artefacts of neolithic period in India
- 4) Protestant religious movements in ancient India.
- 5) Origins and Extents of the Harappan Civilization.
- 6) Indigenous literary sources of ancient Indian History
- 7)
- 8)
- 9)
- 10)

Astiti Samanta
Jannona Subla
Saptadeya Ranjini
Gunnaherj
Soya Mitra

Signature of the Supervisors

Gunnaherj

Signature of HOD

Mishra

Signature of the Principal
Principal
Gurudas College
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Ref. No. GSC7

Date :

This is to certify that 44 students in the Department of HISTORY have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of CC 2 / GE / AECC / ENVS in Part / Semester I under our supervision in Calcutta University B.A. / B.Sc. / B.Com—Honours /General Examination in the academic session / / .

Name of the Project Topics:

- 1) Evolution of Mankind
- 2) Tools & Weapons of Stone Age.
- 3) Art and Architecture of the old Kingdom of Ancient Egyptian Civilization.
- 4) Athenian Democracy
- 5) Greek Drama.
- 6)
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- 9)
- 10)

Amita Samanta
Samura Mukherjee
Saptadipya Dasgupta
Sreyas Mitter
Gunnabheraj

Signature of the Supervisors

Gunnabheraj

Signature of HOD

[Signature]

Signature of the Principal

Principal
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Ref. No. GSC/

Date :

This is to certify that 42 students in the Department of HISTORY have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of CC 3 / GE / AECC / ENVS in Part / Semester II under our supervision in Calcutta University B.A. / B.Sc. / B.Com—Honours /General Examination in the academic session 2018-19.

Name of the Project Topics:

- 1) Art and Architecture of the Gupta Age
- 2) Science and Technology of the Gupta Age
- 3) Gandhara and Mathura Art.
- 4) .
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- 9)
- 10)

*Amita Samanta
Tanuwa Subh
Saptadipya Banerji
Dipa Mishra
et al.*

Signature of the Supervisors

Gurucharya

Signature of HOD

Ushat

Signature of the Principal
Principal
Gurudas College
(Govt. Sponsored)



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Ref. No. GSC/

Date :

This is to certify that 42 students in the Department of HISTORY have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of CC 4 / GE / AECC / ENVS in Part / Semester II under our supervision in Calcutta University B.A. / B.Sc. / B.Com—Honours /General Examination in the academic session 2018-19.

Name of the Project Topics:

- 1) Charlemagne and the Carolingian Renaissance
- 2) Twelfth Century Renaissance
- 3) Magic and Witchcraft in the late Medieval Europe
- 4)
- 5)
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- 9)
- 10)

Aritri Samanta
Sannuon hilton
Saptadeya Ray
Sanya Mitra
Sriy Gnanaharj

Signature of the Supervisors

Gnanaharj

Signature of HOD

[Signature]

Signature of the Principal
Principal
Gurudas College
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Kolkata - 700 054



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Ref. No. GSC/

Date : 25.7.19

This is to certify that 275 students in the Department of History have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of CC I / GE I / AECC / ENVS in Part / Semester I under our supervision in Calcutta University B.A. / B.Sc. / B.Com—Honours /General Examination in the academic session 2018-19.

Name of the Project Topics:

- 1) Stone Age Culture
- 2) Decline of The Harappan Civilization
- 3) Town-planning of the Harappan Civilization
- 4) Buddhism & Jainism as protestant religions in ancient India
- 5) Sixteen Mahajanapades & Rise of Magadh
- 6)
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- 9)
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Gunnaherjee
Saptadeya Ranjan

Signature of the Supervisors

Gunnaherjee

Signature of HOD

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Signature of the Principal

Principal
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Ref. No. GSC/

Date: 2.5.7.19

This is to certify that 228 students in the Department of _____ have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of CC 2 / GE 2 / AECC _____ / ENVS in Part / Semester II under our supervision in Calcutta University B.A. / B.Sc. / B.Com—Honours /General Examination in the academic session 2018-19.

Name of the Project Topics:

- 1) Gupta Economy
- 2) Art and Architecture during the Gupta period
- 3) Development of Science & Education during the Gupta Age
- 4) Nalanda - A centre of Buddhist Learning
- 5) Pallava Architecture
- 6)
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Signature of the Supervisors

Signature of HOD

Signature of the Principal

Principal
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Ref. No. GSC/

Date :

This is to certify that 65 students in the Department of ENGLISH have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of CC 1 /GE /AECC /ENVS in Part / Semester 1 under our supervision in Calcutta University B.A. / B.Sc. / B.Com Honours / General Examination in the academic session 2018-19.

Name of the Project Topics:

- 1) Contribution of John Dryden in English Literature.
- 2) Development of English Sonnet in the Elizabethan Period.
- 3) Dickens and his representation of Society.
- 4) Thomas Hardy and the significance of his novels.
- 5) T.S. Eliot : Modern World as a Waste Land.
- 6) Chaucer's Canterbury Tales.
- 7) Representation of Nature in Hardy's Novels.
- 8)
- 9)
- 10)

Sankuaji
Atasi Saha
Tanuj Bagchi

Signature of the Supervisors

Sankuaji

Signature of HOD

Atasi

Signature of the Principal

Principal
Gurudas College
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Ref. No. GSC/

Date :

This is to certify that 61 students in the Department of ENGLISH have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of CC 2 /GE — /AECC — /ENVS in Part / Semester 1 under our supervision in Calcutta University B.A. / B.Sc. / B.Com. Honours / ~~General~~ Examination in the academic session 2018-19.

Name of the Project Topics:

- 1) Achilles as a Greek hero.
- 2) Conflict of Achilles and Agamemnon in Iliad.
- 3) Oedipus as an Aristotelian Tragedy.
- 4) Character of Achilles.
- 5)
- 6)
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- 10)

Sankuji
Sati Moha
Signature of the Supervisors

Sankuji
Signature of HOD

Sankuji
Signature of the Principal
Principal
Gurudas College
(Govt. Sponsored)



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Ref. No. GSC/

Date :

This is to certify that 58 students in the Department of English have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of CC 3 /GE /AECC /ENVS in Part / Semester 2 under our supervision in Calcutta University B.A. / B.Sc. / B.Com - Honours / General Examination in the academic session 2018-19.

Name of the Project Topics:

- 1) Symbolism in 'Bravely Fought the Queen'.
- 2) Hypocrisy of The Society in Bravely Fought the Queen.
- 3) Unhappiness and Pain in Kamala Das's An Introduction.
- 4) A River:- Depiction of seasons.
- 5) Women and the issue of power in Rajmahal's wife.
- 6)
- 7)
- 8)
- 9)
- 10)

Sankuip
Atari Saha

Signature of the Supervisors

Sankuip

Signature of HOD

Saha

Signature of the Principal

Principal
Gurudas College
(Govt. Sponsored)



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NARIKELDANGA, KOLKATA-700 054

Ref. No. GSC/

Date :

This is to certify that 58 students in the Department of English have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of CC 4 /GE /AECC /ENVS in Part / Semester 2 under our supervision in Calcutta University B.A. /B.Sc. / B.Com—Honours /General Examination in the academic session 2018-19.

Name of the Project Topics:

- 1) Metaphysical traits in Donne's 'The Good Morrow'.
- 2) Role of Witches in Macbeth.
- 3) Sonnet 130 as an unconventional love poem.
- 4) Banquet Scene in Macbeth.
- 5) Feste as a fool in Twelfth Night.
- 6)
- 7)
- 8)
- 9)
- 10)

Swati Haltra
Tanmay Dasgupta
Signature of the Supervisors

Sankarji
Signature of HOD

Signature of the Principal
Principal
Gurudas College
(Govt. Sponsored)
Kolkata-54



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NARIKELDANGA, KOLKATA-700 054

Ref. No. GSC/

Date :

This is to certify that 12 students in the Department of English have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of CC 1 / GE 1 / AECC 1 / ENVS in-Part / Semester 1 under our supervision in Calcutta University B.A. / ~~B.Sc.~~ / ~~B.Com.~~ ~~Honours~~ / General Examination in the academic session 2018-19.

Name of the Project Topics:

- 1) Symbolism in James Joyce's Araby.
- 2) Comment on the setting of Joseph Conrad's The Lagoon.
- 3) Mansfield's The Fly as a model Short Story.
- 4)
- 5)
- 6)
- 7)
- 8)
- 9)
- 10)

Swati Moitra
Atasi Kaha
Tanmay Bhargava
Signature of the Supervisors

Sankuip
Signature of HOD

Shakti
Signature of the Principal
Principal
Gurudas College
(Govt. Sponsored)
Kolkata-54



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(GOVT. SPONSORED)
NARIKELDANGA, KOLKATA-700 054

Ref. No. GSC/

Date :

This is to certify that 9 students in the Department of English have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of CC 2 / GE 2 / ~~AEC~~ ENVS in Part / Semester 2 under our supervision in Calcutta University B.A. / ~~B.Sc.~~ / ~~B.Com~~ / Honours / General Examination in the academic session 2018-19.

Name of the Project Topics:

- 1) Character of Rosalind, Jaques and Touchstone in *As You Like It*.
- 2) Blending of humour and pathos in Lamb's *Dream Children*.
A Reversic.
- 3)
- 4)
- 5)
- 6)
- 7)
- 8)
- 9)
- 10)

Swati Mitra
Atasi Laha
Tanmay Baghira.
Signature of the Supervisors

Sankarjyoti
Signature of HOD

H. K. S.
Principal
Signature of the Principal
Gurudas College
(Govt. Sponsored)
Kolkata-54



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Ref. No. GSC/

Date :

This is to certify that 60 students in the Department of _____ have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of CC 4 / GE ____ / AECC ____ / ENVS in Part / Semester 2 under our supervision in Calcutta University B.A. / B.Sc. / B.Com—Honours /General Examination in the academic session 2018-2019.

Name of the Project Topics:

- 1) RABINDRA CHITPATNER PRADHAB : BALAKA
- 2) KAPALKUNDLA UPANYASER OTIPRAKRITO RASA
- 3) ADAB HALPER ASAMPRA DAYIKATA
- 4) ABHAGIR SHARMA HALPER SAMAJIK PREKSHIT
- 5) NILDARPAN NATAKER SRENIBILHAR
- 6)
- 7)
- 8)
- 9)
- 10)

Signature of the Supervisors

Signature of HOD

Principal

Gurudas College
(Govt. Sponsored)
Kolkata-54



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Ref. No. GSC/

Date :

This is to certify that 60 students in the Department of _____ have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of CC 3 / GE ___ / AECC ___ / ENVS in Part / Semester 2 under our supervision in Calcutta University B.A. / B.Sc. / B.Com—Honours /General Examination in the academic session 2018-2019.

Name of the Project Topics:

- 1) BANGLA KABYE MADHUSUDANER KIBADAN
- 2) BANGLA NATYAKAR DER NATAK - PORI UHAY
- 3) BANGLA UPANYASER ITIHASE BANKIMCHANDRER DAN
- 4) BANGLA WADYO LAHITYE FORT WILLIUM COLLEGER KIBADAN
- 5)
- 6)
- 7)
- 8)
- 9)
- 10)

A. Banerjee
A. Banerjee

Signature of the Supervisors

H. Chatterjee

Signature of HOD

[Signature]

Principal
Gurudas College
Govt. Sponsored
Kolkata-54



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Ref. No. GSC/

Date :

This is to certify that 69 students in the Department of Bengali have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of CC 2 / GE / AECC / ENVS in Part / Semester I under our supervision in Calcutta University B.A. / B.Sc. / B.Com—Honours /General Examination in the academic session .

Name of the Project Topics:

- 1) BANGLA SHARDHANIR ULCHHARAN ISTHAN
- 2) BANGLA DYANJANDHONIR ULCHHARAN PROKRITI
- 3) BANGLA SABDA BHANDAR
- 4) UDAHARAN SAHO DHVANI PORIBARTANER CHARTI DHARA
- 5) SABDARTHA PORIBARTANER KARANLAMUHA
- 6) EKI UPABHASAR RUPTATNIK O DHANITATNIK BOJISITYA
- 7) GARNANA MULAR BHASHA BIKYAN
- 8) RUPTATND
- 9) KARAK BIBHOKTI
- 10)

A. Banerjee
[Signature]

Signature of the Supervisors

H. Chatterjee
[Signature]

Signature of HOD

[Signature]

Principal
Gurudas College
(Govt. Sponsored)
Kolkata-54



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NARIKELDANGA, KOLKATA-700 054

Ref. No. GSC/

Date :

This is to certify that 69 students in the Department of Bengali have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of CC I / GE / AECC / ENVS in Part / Semester I under our supervision in Calcutta University B.A. / B.Sc. / B.Com—Honours /General Examination in the academic session 2018-2019.

Name of the Project Topics:

- 1) BANGLA BHASAR UTPATTI
- 2) CHARYA PADER KABYIK MULYA O SAMAJIK GURUTHA
- 3) SRIKRISHNA KIRTAN : KABI PARILHAY, DISAYBASTU, NAMKARAY O CHANDIDAS SAMASYA
- 4) ANUSAD SAHITYE BHAGABAT
- 5) BAISHNAB PADAKARTA VIDYAPATI
- 6) CHAITNYA JIBONI SAHITYE CHAITANYA BHAGADATER ANANYATA
- 7) MANGAL KABYER UDBHAB O DIKASH
- 8) DHARMA MANGAL KABYE DHARMA THAKURER BHAB KAPANA
- 9) SHAKTA PADA BOLIR BIKASE RAMPRASAD SENER BHUNIKA
- 10)

A. Banerjee
Prishu Das (Prinia)

Signature of the Supervisors

H. Chattop

Signature of HOD

Principal

Principal
Gurudas College
(Govt. Sponsored)
Kolkata-54



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(GOVT. SPONSORED)
NARIKELDANGA, KOLKATA-700 054

Ref. No. GSC/

Date :

This is to certify that 151 students in the Department of Bengali have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of CC ___ / GE I / AECC ___ / ENVS in Part / Semester I under our supervision in Calcutta University B.A. / B.Sc. / B.Com—Honours /General Examination in the academic session _____.

Name of the Project Topics:

- 1) ROMANCEDHORMI UPANYASE BANKIMLHANDRER DAKKHOTA
- 2) RADINDRANATHER SAMAJIK UPANYAS
- 3) TROI BANDYOPADHYAYER MODHYE SADRISYA O BOISADRISYO
- 4)
- 5)
- 6)
- 7)
- 8)
- 9)
- 10)

S. Maity
G. Acharya

Signature of the Supervisors

H. Chatterjee

Signature of HOD

S. K. S.

Principal
Gurudas College
(Govt. Sponsored)
Kolkata-54



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Ref. No. GSC/

Date :

This is to certify that 205 students in the Department of Political Science have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of CC ___ / GE CC2 / AECC ___ / ENVS in Part / Semester II under our supervision in Calcutta University B.A. / B.Sc. / B.Com—Honours / General Examination in the academic session 2018-19.

Name of the Project Topics:

- 1) Government and Politics of Britain
- 2) Government and Politics of USA
- 3) Government and Politics of China.
- 4)
- 5)
- 6)
- 7)
- 8)
- 9)
- 10)

1. Aniket Dasgupta
2. Gautam Thakur
3. Rehatyaji

Signature of the Supervisors

Rehatyaji

Signature of HOD

W. K. Dasgupta

Principal
Signature ~~Gurudas College~~
(Govt. Sponsored)
Kolkata-54



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NARIKELDANGA, KOLKATA-700 054

Ref. No. GSC/

Date :

This is to certify that 186 students in the Department of Political Science have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of CC ___ / GE CC1 / AECC ___ / ENVS in Part / Semester I under our supervision in Calcutta University B.A. / B.Sc. / B.Com—Honours / General Examination in the academic session 2019-20.

Name of the Project Topics:

- 1) Democracy
- 2) Law
- 3) Gandhism : Relevance
- 4) class and class struggle
- 5)
- 6)
- 7)
- 8)
- 9)
- 10)

1. Aniket Goswami
2. Gaurav Mukherjee
3. Rehatterji

Signature of the Supervisors

Rehatterji

Signature of HOD

M. Pal
Principal
Gurudas College
(Govt. Sponsored)
Kolkata-54



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NARIKELDANGA, KOLKATA-700 054

Ref. No. GSC/

Date :

This is to certify that 51 students in the Department of Political Science have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of CC 4 / GE / AECC / ENVS in Part / Semester II under our supervision in Calcutta University B.A. / B.Sc. / B.Com—Honours /General Examination in the academic session 2018-19.

Name of the Project Topics:

- 1) Party System in India
- 2) Caste and Politics in India
- 3) Electoral Politics in India
- 4) Regionalism in Indian Politics
- 5) Interest Groups in Indian Politics.
- 6) New Social Movements in India.
- 7)
- 8)
- 9)
- 10)

1. Ghosh
2. Rehatterji
3. Aniket Dasgupta

Signature of the Supervisors

Rehatterji

Signature of HOD

Sharma

Principal
Gurudas College
(Govt. Sponsored)



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(GOVT. SPONSORED)
NARIKELDANGA, KOLKATA-700 054

Ref. No. GSC/

Date :

This is to certify that 51 students in the Department of Political Science have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of CC 3 / GE / AECC / ENVS in Part / Semester II under our supervision in Calcutta University B.A. / B.Sc. / B.Com—Honours /General Examination in the academic session 2018-19.

Name of the Project Topics:

- 1) Fundamental Rights of Indian Citizens.
- 2) The Role of the Chief Minister.
- 3) The Role of the Governor in State Politics.
- 4) The Role of the Prime Minister and Coalition Government.
- 5) Supreme Court as a Guardian of Indian Constitution.
- 6)
- 7)
- 8)
- 9)
- 10)

1. Rehatterji
2. Ganta Pradyumna
3. Aniket Dasgupta

Signature of the Supervisors

Rehatterji

Signature of HOD

Rehat
Principal
Gurudas College
(Govt. Sponsored)
Kolkata-54



GURUDAS COLLEGE

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NARIKELDANGA, KOLKATA-700 054

Ref. No. GSC/

Date :

This is to certify that 51 students in the Department of Political Science have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of CC 1 / GE / AECC / ENVS in Part / Semester I under our supervision in Calcutta University B.A. / B.Sc. / B.Com—Honours /General Examination in the academic session 2018-19.

Name of the Project Topics:

- 1) Rawls Theory of Justice
- 2) Citizenship in a Globalised world
- 3) Sovereignty - in the context of Globalization.
- 4) Democracy and its varieties.
- 5)
- 6)
- 7)
- 8)
- 9)
- 10)

1. Rehatterya
2. Gautam Thakur
3. Ashutosh Dasgupta

Signature of the Supervisors

Rehatterya

Signature of HOD

Moh...

Principal
Signature of the Principal
Gurudas College
(Govt. Sponsored)
Kolkata-54



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NARIKELDANGA, KOLKATA-700 054

Ref. No. GSC/

Date :

This is to certify that 51 students in the Department of Political Science have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of CC 2 / GE / AECC / ENVS in Part / Semester under our supervision in Calcutta University B.A. / B.Sc. / B.Com—Honours / General Examination in the academic session 2018-19.

Name of the Project Topics:

- 1) Liberalism
- 2) Feminism
- 3) Class and Class Struggle
- 4) Identity Politics
- 5)
- 6)
- 7)
- 8)
- 9)
- 10)

1. Gautam Mukherjee
2. Rehatterji
3. Aniket Goswami

Signature of the Supervisors

Rehatterji

Signature of HOD

Uhal

Principal
Signature of Gurudas College
(Govt. Sponsored)
Kolkata-54



GURUDAS COLLEGE

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NARIKELDANGA, KOLKATA-700 054

Ref. No. GSC/

Date : 1

This is to certify that 803 students in the Department of _____ have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of CC ____ / GE ____ / AECC 2 / ENVS in Part / Semester II under our supervision in Calcutta University B.A. / B.Sc. / B.Com—Honours / General Examination in the academic session 2018 - 2019.

Name of the Project Topics:

- 1) Ozone layer depletion.
- 2) Use of preservatives and its side effects.
- 3) Ground water crisis and its remedies.
- 4) mosquito Borne disease with special reference to Dengue.
- 5) Environmental education and public awareness.
- 6) Sound pollution and its prevention.
- 7) Air pollution and its effect in public health.
- 8) Plastic pollution and its remedies.
- 9) Land crisis.
- 10) Drainage problem.
- 11) Biodiversity and its effects.

Signature of Supervisors:
Sanku 17/7/19
Anindya Mukherjee 19/7/19
SP 19/7/19
Sumantra Mukherjee 24/7/19
Malya Chatterjee 29/7/19

Signature of the Supervisors

Signature of HOD

Signature of Principal
Principal
Gurudas College
(Govt. Sponsored)
Kolkata-54



GURUDAS COLLEGE

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NARIKELDANGA, KOLKATA-700 054

Ref. No. GSC/

Date :

This is to certify that 747 students in the Department of _____ have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of CC ___ / GE ___ / AECC ___ / ENVS in Part / Semester III under our supervision in Calcutta University B.A. / B.Sc. / B.Com—Honours / General Examination in the academic session 2018 - 2019.

Name of the Project Topics:

- 1) Ecology of Mangrove forests.
- 2) Mosquito Borne Diseases with special Reference to Malaria.
- 3) Health Hazards Related to Pollution: it Remedies.
- 4) Water Pollution: Special Reference to Endangered Rivers.
- 5) Ozone layer Depletion.
- 6) Rain Water Harvesting.
- 7) An Approach to the Neighbouring Ecosystem.
- 8) Effects of Global Warming towards Marine life.
- 9) Elements of Environment Pollution and its way out in your favourite literature.
- 10) Environmental Ethics: Role of Gender and culture in Environmental conservation.
- 11) Use of Preservatives and its Effect.
- 12) Adverse Effect of Genetically Modified food.
- 13) study of the Advantage of Biofriendly fuels.
- 14) causes and Effects of land crisis.
- 15) A field study on indiscriminate use of food and water.

Prasanta
27/07/19
Bolandi Mitra 23/7/19

Signature of HOD

Signature of the Principal
Principal
Gurudas College
(Govt. Sponsored)
Kolkata-54

Signature of the Supervisors

Prasanta
23.7.19
Bolandi Mitra
23/7/19
23.7.19



GURUDAS COLLEGE

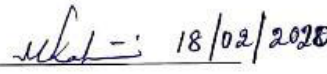
(GOVT. SPONSORED)
NARIKELDANGA, KOLKATA-700 054

Ref. No. GSC/

Date :

This is to certify that 865 students have successfully completed and submitted ENVIS Projects in Part III in Calcutta University B.A./B.Sc./B.Com—Honours /General Examination in the academic session 2014-2015.


IQAC Coordinator
GURUDAS COLLEGE
KOLKATA-700 054

 18/02/2020
Signature of the Principal
Principal
Gurudas College
(Govt. Sponsored)
Kolkata-54



GURUDAS COLLEGE

(GOVT. SPONSORED)
NARIKELDANGA, KOLKATA-700 054

Ref. No. GSC/

Date :

This is to certify that 714 students have successfully completed and submitted ENVS Projects in Part III in Calcutta University B.A./B.Sc./B.Com—Honours /General Examination in the academic session 2015-2016.

J. Mazumder

**IQAC Coordinator
GURUDAS COLLEGE
KOLKATA-700 054**

[Signature] 18/02/2020

Signature of the Principal

**Principal
Gurudas College
(Govt. Sponsored)
Kolkata-54**



GURUDAS COLLEGE

(GOVT. SPONSORED)
NARIKELDANGA, KOLKATA-700 054

Ref. No. GSC/ Date :

This is to certify that 879 students have successfully completed and submitted ENVIS Projects in Part III in Calcutta University B.A./B.Sc./B.Com—Honours /General Examination in the academic session 2016-2017.

J. Hazwonder

**IQAC Coordinator
GURUDAS COLLEGE
KOLKATA-700 054**

Ukat- 18/02/2020

Signature of the Principal

**Principal
Gurudas College
(Govt. Sponsored)
Kolkata-54**



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(GOVT. SPONSORED)

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Ref. No. GSC/

Date :

This is to certify that 708 students have successfully completed and submitted ENVS Projects in Part III in Calcutta University B.A./B.Sc./B.Com—Honours /General Examination in the academic session 2017-2018.

S. Hazwonder

**IQAC Coordinator
GURUDAS COLLEGE
KOLKATA-700 054**

skhat = 18/02/2020

Signature of the Principal

**Principal
Gurudas College
(Govt. Sponsored)
Kolkata-54**



GURUDAS COLLEGE

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NARIKELDANGA, KOLKATA-700 054

Ref. No. GSC/

Date: 17/02/2020

This is to certify that eight students in the Department of Biochemistry have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of Paper VIII, Module XIV in Part III under our supervision in Calcutta University B.Sc. Honours Examination in the academic session 2018-19.

Name of the Project Topics:

- 1) Metal Toxicity
- 2) Tuberculosis
- 3) Air Pollution
- 4) Water Pollution
- 5) Soil Pollution
- 6) Myocardial infraction
- 7) Chikungunya
- 8) Food toxicity

Blaswanti Saha Senanta

Signature of the Supervisors

Anamika Basu

Signature of HOD

[Handwritten Signature]

Signature of the Principal
Principal
Gurudas College
(Govt. Sponsored)
Kolkata-5th



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Ref. No. GSC/

Date : 19/02/2020

This is to certify that eight students in the Department of Biochemistry have successfully completed and submitted project on one of the following topics as a part of Internal Assessment of Paper VIII, Module XIV in Part III under our supervision in Calcutta University B.Sc. Honours Examination in the academic session 2017-18.

Name of the Project Topics:

- 1) Heavy metal toxicity- Uranium
- 2) Food toxicity- Botulism
- 3) Dengue (infectious disease)
- 4) Food toxicity- (Hepatitis A)
- 5) Pollution (smog)
- 6) Heavy metal toxicity- Mercury
- 7) Soil Pollution
- 8) COPD (Non Infectious Disease)

Bhaskari Saha Samanta

Signature of the Supervisors

Anamika Basu

Signature of HOD

[Signature]

Signature of the Principal
Principal
Gurudas College
(Govt. Sponsored)
Kolkata-54

Phone : 2370-3841 & 2353-8653
E-mail: principal@gurudascollege.edu.in



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Ref. No. GSC/

Date: 19.02.2020

This is to certify that 13 students in the Department of Economics have successfully completed and submitted Term Papers (Paper-VIII) in Part III under our supervision in Calcutta University B.Sc. Honours Examination in the academic session 2017-2018.

J. Hazumdar
Deputy Supervisor
Rakib Sanjay

Signature of the Supervisors
Department of Economics
Gurudas College
Kolkata - 700 054

Phone : 2370-3841 & 2383-8883
E-mail: principal@gurudascollege.edu.in



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NARIKELDANGA, KOLKATA-700 054

Ref. No. GSC/

Date: 19.02.2020

This is to certify that 7 students in the Department of Economics have successfully completed and submitted Term Papers (Paper-VIII) in Part III under our supervision in Calcutta University B.Sc. Honours Examination in the academic session 2016-2017.

J. Masumdar
Deputy HoM
Ranhi Banerjee

Signature of the Supervisors

Department of Economics
Gurudas College
Kolkata - 700 054

Phone : 2370-3841 & 2353-8653
E-mail: principal@gurudascollege.edu.in



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Ref. No. GSC/

Date: 19.02.2020

This is to certify that 11 students in the Department of Economics have successfully completed and submitted Term Papers (Paper-VIII) in Part III under our supervision in Calcutta University B.Sc. Honours Examination in the academic session 2015-2016.

J. Hazumder

Ranji Banerjee

Signature of the Supervisors
Department of Economics
Gurudas College
Kolkata - 700 054



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(GOVT. SPONSORED)
NARIKELDANGA, KOLKATA-700 054

Ref. No. GSC/

Date : 19.02.2020

This is to certify that 02 students in the Department of Economics have successfully completed and submitted Term Papers (Paper-VIII) in Part III under our supervision in Calcutta University B.Sc. Honours Examination in the academic session 2014-2015.

J. Hazunder

Rabi Banerjee

Signature of the Supervisors

Department of Economics
Gurudas College
Kolkata - 700 054

Phone : 2270-3841 & 2253-9852
E-mail: principal@gurudascollge.edu.in



GURUDAS COLLEGE

(GOVT. SPONSORED)
NARIKELDANGA, KOLKATA-700 054

Ref. No. GSC/

Date : 10/08/19

This is to certify that 26 students of Botany Honours Semester-I have successfully participated in Botanical Excursion under our supervision at Shuvash Sarovar adjoining areas on 10/08/2018 and submitted field reports in the academic session 2018-19 as per Calcutta University curriculum.

Signature of HOD

Signature of the Principal
Principal
Gurudas College
(Govt. Sponsored)
Kolkata-54



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(GOVT. SPONSORED)
NARIKELDANGA, KOLKATA-700 054

Ref. No. GSC/

Date: 10/08/19

This is to certify that 35 students of Zoology Honours Semester-I have successfully participated in Botanical Excursion under our supervision at Shuvash Sarovar, adjoining areas on 10/08/2018 and submitted field reports in the academic session 2018-19 as per Calcutta University curriculum.

[Signature]
Signature of HOD

[Signature]
Signature of the Principal
Principal
Gurudas College
(Govt. Sponsored)
Kolkata-54



GURUDAS COLLEGE

(GOVT. SPONSORED)
NARIKELDANGA, KOLKATA-700 064

Ref. No. GSC/

Date: 10/08/19

This is to certify that 27 students of Bioscience General Semester-I have successfully participated in Botanical Excursion under our supervision at Shuvash Sanyal adjoining areas on 10/08/2018 and submitted field reports in the academic session 2018-19 as per Calcutta University curriculum.

[Signature]
Signature of HOD

[Signature]
Signature of the Principal
Principal
Gurudas College
(Govt. Sponsored)
Kolkata-54



GURUDAS COLLEGE

(GOVT. SPONSORED)
NARIKELDANGA, KOLKATA-700 054

Ref. No. GSC/

Date: 10/08/19

This is to certify that 24 students of Botany Honours Part-II have successfully participated in Botanical Excursion under our supervision at Shuvash Sarovar adjoining areas on 14/12/2018 and submitted field reports in the academic session 2018-19 as per Calcutta University curriculum.

44

Signature of HOD

sch

Signature of the Principal
Principal
Gurudas College
(Govt. Sponsored)
Kolkata-54



GURUDAS COLLEGE

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NARIKELDANGA, KOLKATA-700 054

Ref. No. GSC/

Date :

This is to certify that 24 students of Zoology Honours Part-II have successfully participated in Botanical Excursion under our supervision at Shuvash Sarovar adjoining areas on 14/12/2018 and submitted field reports in the academic session 2018-19 as per Calcutta University curriculum.

Signature of HOD

Signature of the Principal
Principal
Gurudas College
(Govt. Sponsored)
Kolkata-54



Phone - 2370-3841 & 2353-6453
E-mail: principal@gurudascollge.edu.in

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NARIKELDANGA, KOLKATA-700 054

Ref. No. GSC/

Date: 10/08/19

This is to certify that 30 students of Bioscience General Part-II have successfully participated in Botanical Excursion under our supervision at Shubash Sarovar adjoining areas on 14/12/2018 and submitted field reports in the academic session 2018-19 as per Calcutta University curriculum.

Signature of HOD

Signature of the Principal
Principal
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(Govt. Sponsored)
Kolkata-54



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(GOVT. SPONSORED)
NARIKELDANGA, KOLKATA-700 064

Ref. No. GSC7

Date: 10/05/19

This is to certify that 23 students of
Botany Honours, Part II have successfully participated in
Botanical Excursion under our supervision at
Narendrapur Ram Krishna Mission on
08/02/2019 and submitted field reports in the academic
session 2018-19 as per Calcutta University curriculum.

[Signature]
Signature of HOD

[Signature]
Signature of the Principal
Principal
Gurudas College
(Govt. Sponsored)
Kolkata-54



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(GOVT. SPONSORED)
NARIKELDANGA, KOLKATA-700 054

Ref. No. GSC/

Date: 10/08/19

This is to certify that 42 students of Bioscience General Part-III have successfully participated in Botanical Excursion under our supervision at Narendrapur R.K.M. on 08/02/2019 and submitted field reports in the academic session 2018-19 as per Calcutta University curriculum.

40

Signature of HOD

[Signature]

Signature of the Principal
Principal
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Kolkata-54



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(GOVT. SPONSORED)
NARIKELDANGA, KOLKATA-700 054

Ref. No. GSC/

Date: 10/08/19

This is to certify that 26 students of Botany Honours, Semester-II have successfully participated in Botanical Excursion under our supervision at A.J.C. Bose Indian Botanic Garden on 27/02/2019 and submitted field reports in the academic session 2018-19 as per Calcutta University curriculum.

Signature of HOD

Signature of the Principal
Principal
Gurudas College
(Govt. Sponsored)
Kolkata-54



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E-mail: principal@gurudascollge.edu.in

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NARIKELDANGA, KOLKATA-700 064

Ref. No. GSC/

Date: 10/08/19

This is to certify that 07 students of Microbiology Honours, Part II have successfully participated in Botanical Excursion under our supervision at Shuvash Sarovar adjoining areas on 14/12/2018 and submitted field reports in the academic session 2018-19 as per Calcutta University curriculum.

[Signature]

Signature of HOD

[Signature]

Signature of the Principal
Principal
Gurudas College
(Govt. Sponsored)
Kolkata-54



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(GOVT. SPONSORED)
NARIKELDANGA, KOLKATA-700 054

Ref. No. GSC/

Date: 10/05/19

This is to certify that 30 students of Zoology Honours, Semester-II have successfully participated in Botanical Excursion under our supervision at A. J. C Bose Indian Botanic Garden on 27/02/19 and submitted field reports in the academic session 2018-19 as per Calcutta University curriculum.

[Signature]

Signature of HOD

[Signature]

Signature of the Principal
Principal
Gurudas College
(Govt. Sponsored)
Kolkata-54



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(GOVT. SPONSORED)
NARIKELDANGA, KOLKATA-700 054

Ref. No. GSC/

Date: 16/08/19

This is to certify that 26 students of
Bioscience General, Semester-II have successfully participated in
Botanical Excursion under our supervision at
A.J.C. Bose Indian Botanic Garden on
27/02/2019 and submitted field reports in the academic
session 2018-19 as per Calcutta University curriculum.

[Signature]
Signature of HOD

[Signature]
Signature of the Principal
Principal
Gurudas College
(Govt. Sponsored)
Kolkata-54



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(GOVT. SPONSORED)
NARIKELDANGA, KOLKATA-700 054

Ref. No. GSC/

Date: 10/08/19

This is to certify that 26 students of Botany Honours, Part-II have successfully participated in Botanical Excursion under our supervision at A.J.C. Bose Indian Botanic Garden on 27/02/19 and submitted field reports in the academic session 2018-19 as per Calcutta University curriculum.

HD

Signature of HOD

Shobani

Signature of the Principal
Principal
Gurudas College
(Govt. Sponsored)
Kolkata-54



GURUDAS COLLEGE

(GOVT. SPONSORED)
NARIKELDANGA, KOLKATA-700 054

Ref. No. GSC/

Date : 10/08/19

This is to certify that 23 students of
Zoology Hons. Part - II have successfully participated in
Botanical Excursion under our supervision at
A. J. C. Bose Indian Botanic Garden on
27/02/2019 and submitted field reports in the academic
session 2018-19 as per Calcutta University curriculum.

Signature of HOD

Signature of the Principal
Principal
Gurudas College
(Govt. Sponsored)
Kolkata-54



Phone : 2370-3841 & 2353-6653
E-mail: principal@gurudacollege.edu.in

GURUDAS COLLEGE

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NARIKELDANGA, KOLKATA-700 054

Ref. No. GSC/

Date: 10/08/19

This is to certify that 08 students of Microbiology Honours, Part-II have successfully participated in Botanical Excursion under our supervision at A.J.C. Base Indian Botanic Garden on 27/02/2018 and submitted field reports in the academic session 2018-19 as per Calcutta University curriculum.

Signature of HOD

Signature of the Principal
Principal
Gurudas College
(Govt. Sponsored)
Kolkata-54




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(GOVT. SPONSORED)
NARIKELDANGA, KOLKATA-700 054

Ref. No. GSC/

Date: 16/08/19

This is to certify that 27 students of Bioscience General Sem-II have successfully participated in Botanical Excursion under our supervision at Gurudas College Campus on 11/05/19 and submitted field reports in the academic session 2018-19 as per Calcutta University curriculum.


Signature of HOD


Signature of the Principal
Principal
Gurudas College
(Govt. Sponsored)
Kolkata-54



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(GOVT. SPONSORED)
NARIKELDANGA, KOLKATA-700 054

Ref. No. GSC/

Date: 10/08/19

This is to certify that 29 students of Zoology Honours, Semester - II have successfully participated in Botanical Excursion under our supervision at Gurudas College Campus on 11/05/2019 and submitted field reports in the academic session 2018-19 as per Calcutta University curriculum.

HOD

Signature of HOD

Principal

Signature of the Principal
Principal
Gurudas College
(Govt. Sponsored)
Kolkata-54



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(GOVT. SPONSORED)
NARIKELDANGA, KOLKATA-700 054

Ref. No. GSC/

Date: 10/08/19

This is to certify that 34 students of Bioscience General, Part-II have successfully participated in Botanical Excursion under our supervision at A.J.C. Bose Indian Botanic Garden on 27/02/19 and submitted field reports in the academic session 2018-19 as per Calcutta University curriculum.

[Signature]
Signature of HOD

[Signature]
Signature of the Principal
Principal
Gurudas College
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NARIKELDANGA, KOLKATA-700 054

Ref. No. GSC/

Date :

This is to certify that 48 students in the Department of Zoology have successfully completed and submitted project on one of the following topics as a part of Educational Excursion at Zoological Garden, Indian Museum and 4 no. Bheri, East Kolkata Wetlands (Ramsar Wetland) under our supervision in Calcutta University B.Sc General part III the academic session 2018-19.

1. Monika Mehta
2. Harshambharan Pal
3. Udayan
4. Balaji Kaldan
5. Paulanul De Chowdhury
6. 
7. 
8. 

Signature of the Supervisors



Signature of HOD



Signature of the Principal
Principal
Gurudas College
(Govt. Sponsored)
Kolkata-54



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NARIKELDANGA, KOLKATA-700 054

Ref. No. GSC/

Date :

This is to certify that 27 students in the Department of Zoology have successfully completed and submitted project on one of the following topics as a part of Educational Excursion at Chandipur, Orissa under our supervision in Calcutta University B.Sc Honours part III the academic session 2018-19.

1. Mina Sankar Pal
2. Poulami De Bhowmik
3. [Signature]
4. Saruni Das
5. [Signature]

Signature of the Supervisors

[Signature]
Signature of HOD

[Signature]
Signature of the Principal

Principal
Gurudas College
(Govt. Sponsored)
Kolkata-54



GURUDAS COLLEGE

(GOVT. SPONSORED)
NARIKELDANGA, KOLKATA-700 054

Ref. No. GSC/

Date :

This is to certify that 90 students in the Department of _____ Zoology _____ have successfully completed and submitted project on one of the following topics as a part of Educational Excursion at Zoological Garden, Indian Museum under our supervision in Calcutta University B.Sc General part II the academic session _____ 2018-19 _____.

1. K. Das
2. Anasambhar Pal
3. Monika Halda
4. Babi Halda
5. Pradyumna De Bhowmik
- 6.

Signature of the Supervisors

Signature of HOD

Signature of the Principal
Principal
Gurudas College
(Govt. Sponsored)
Kolkata-54



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(GOVT. SPONSORED)
NARIKELDANGA, KOLKATA-700 054

Ref. No. GSC/

Date :

This is to certify that __22__ students in the Department of _____ Zoology _____ have successfully completed and submitted project on one of the following topics as a part of Educational Excursion at Chandipur, Orissa under our supervision in Calcutta University B.Sc Honours part II the academic session _____ 2018-19 _____.

1. Anandambal
2. *[Signature]*
3. Poulami De Bhawanik
4. Sanyu Das
5. *[Signature]*

Signature of the Supervisors

[Signature]

Signature of HOD

[Signature]

Signature of the Principal
Principal
Gurudas College
(Govt. Sponsored)
Kolkata-54

**EDUCATIONAL EXCURSIONS UNDERTAKEN BY BOTANY DEPARTMENT SINCE
2014-15 SESSION**

Date	Location	Year of the Students	Teachers	Non-teaching Staff	Total students
-------------	-----------------	-----------------------------	-----------------	---------------------------	-----------------------

2014-15

26/11/2014 to 02/12/2014	Dooars & Lava W. B.	2 nd yr Hons	R. C. Das, A. Biswas, M. Roy, G. K. Pahari	M. Mondal	32
30/01/2015	Acharya Jagadish Chandra Bose Indian Botanical Garden & CNH Shibpur, Howrah, W.B.	2 nd yr Hons, 2 nd yr General, & 3 rd yr General	Mi. Das, S. Paul, R. C. Das, A. Biswas, M. Roy, G. K. Pahari	B. Roy, M. Mondal	135
14/03/2015	Subhash Sarovar Kolkata, W.B	2 nd yr Hons & 2 nd yr General	M. Das, S. Paul, R. C. Das, A. Biswas, M. De, G. K. Pahari	B. Roy, M. Mondal	102

2015-16

18/11/2015 to 24/11/2015	Lava, Silerigaon, Kalimpong W. B	2 nd yr Hons	M. De, G K Pahari, M Das, R C Das	M Mondal	33
03/02/2016	Acharya Jagadish Chandra Bose Indian Botanical Garden & CNH Shibpur, Howrah, W.B	2 nd yr Hons & 2 nd yr General	G K Pahari, M. De, R C Das, A. Biswas, M Roy	B. Roy, M. Mondal	104
01/03/2016	Subhash Sarovar Kolkata, W.B	2 nd yr Hons & 2 nd yr General	M. De, G. K. Pahari, M. Roy, R. C. Das, A. Biswas	B. Roy, P. Banerjee, B. Sardar	104
05/03/2016	Narendrapur Ramkrishna Mission Medicinal Plants Garden, Kolkata, W.B	3 rd yr General	M. De, G. K. Pahari, R. C. Das, A. Biswas	B. Sardar	35

2016-17

21/11/16 to 26/11/16	Chibo, Lava & Dooars	2nd yr. Hons	M. Das, G. K. Pahari , M Roy, A. Biswas, A. Ali	B. Sardar	31
3/12/16	Subhas Sarovar	2nd yr. Hons & 2 nd yr. General	M. Das, M. De, G. K. Pahari, R. C. Das, M. Roy, A. Biswas, M. Bishai	B. Roy, P. Banerjee, B. Sardar	120
23/2/17	A.J.C.B. Indian Botanic Garden	2nd yr. Hons & 2 nd yr. General	M. De, A. Biswas, M. Bishai, A. Ali	B Roy, P Banerjee, B Sardar	120
1/3/17	Narendropur R K Mission Medicinal Plants Garden	2nd yr. Hons & 3 rd yr. General	M. Das, A. Biswas, R. C. Das, M. Bishai	P Banerjee, B Sardar	84

2017-18

14/11/17 to 9/11/17	Araku & Vizag	2 nd yr. Hons	M Das, MDE, G K Pahari, R C Das, ABiswas	B. Sardar	35
6/1/18	Subhas Sarovar	2 nd yr. Hons & 2 nd yr. General	M. Das, M. De, G. K Pahari, R. C. Das, M. Roy, A. Biswas, M. Bishai	B. Roy, P. Banerjee, B. Sardar	120
23/02/2018	Narendropur R.K. Mission Medicinal Plants Garden	2 nd yr. Hons & 3 rd yr. General	M. Das, M. Roy, M. Bishai	P. Banerjee, B. Sardar	65
09/03/2018	A.J.C.B. Indian Botanic Garden	2 nd yr. Hons & 2 nd yr. General	M. Das, M. De G. K. Pahari, R. C. Das, M Roy, M. Bishai	B. Roy, P. Banerjee, B. Sardar	117

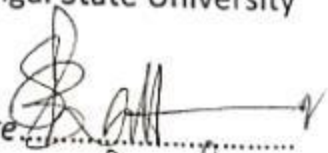
2018-19

10/08/2018	Adjoining areas of Shubhash Sarovar	1 st Semester Hons & General (DB, ZOOA)	M. Das, M. De, M. Roy, G. K. Pahari, R. C. Das, A. Biswas, M. Bishai	B Roy, P Banerjee, B Sardar	88
13-09-2018 to 15-09-2018	Ghatshila-Tatanagar adjoining areas	2 nd yr. Hons	M. Das, M. De, M. Roy, G. K. Pahari, R. C. Das	B Sardar	30
14-12-2018	Adjoining areas of Shubhash Sarovar	2 nd yr. Hons & 2 nd yr. General	M. Das, M. De, M. Roy, G. K. Pahari, R. C. Das, A. Biswas, M. Bishai	B. Roy, P. Banerjee, B. Sardar	91
08-02-2019	Narendrapur R.K.M Medicinal Plants Garden	2nd yr. Hons & 3rd yr. General	M. Das, M. Roy, R.C. Das	P. Banerjee, B. Sardar	65
27-02-2019	A.J.C.B. Indian Botanic Garden	2 nd yr. Hons, 2 nd yr. General, 2 nd semester Hons & 2 nd semester General	M. Das, M De, M. Roy, G K Pahari, R C Das, A. Biswas, M. Bishai	B. Roy, P. Banerjee, B. Sardar	185

CERTIFICATE OF COMPLETION

This is to certify that Mr. Dollar Ganguly, a student of Department of Zoology in Gurudas College (Reg: 058-1121-0082-14; University of Calcutta) has successfully completed his on "Nectar Feeding Bird Community on *Butea monosperma* Helping in Pollination and Their Behaviour Studied at Buxa Tiger Reserve and Bankura" conducted from 10th January to 31st March 2019 under my supervision.

Professor Silanjan Bhattacharya
Department of Zoology
West Bengal State University

Signature 
08/07/2019

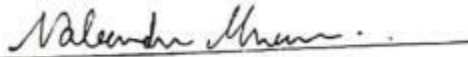
DR. NABENDU MURMU, PhD
Senior Scientific Officer, Gr I
Head- Dept. of Signal Transduction & Biogenic Amines



Chittaranjan National Cancer Institute
An autonomous body under the Ministry of
Health & Family Welfare, Govt. Of India
37, S. P. Mukherjee Road, Kolkata- 700026, WB, India
Tel: 2475-9313/8057(Ext.322), Fax. +91-33-2475-7606
E-mail. nabendu.murmu@cnci.org.in
nabendu64@gmail.com

TO WHOM IT MAY CONCERN

This is to certify that this project report is the bonafide work of Ms. Sayani Malik, a student of M.Sc. Zoology of Gurudas College, affiliated to University of Calcutta, who carried out the project entitled "Synergistic effect of Lupeol and Docetaxel on gastric cancer cell line", under my supervision for two months and fifteen days from 15.01.2019 to 31.03.2019.



DR. NABENDU MURMU

डॉ० नबेन्दु मूर्मु/Dr. Nabendu Murmu Ph.D
वरिष्ठ वैज्ञानिक अधिकारी, ग्रेड-1/3e, Scientific Officer, Gr-I
विभाग प्रमुख, सिग्नल ट्रांसडक्शन और बायोजेनिक एमिंस
Head. Signal Transduction and Biogenic Amines
चितरंजन राष्ट्रीय कैंसर संस्थान
Chittaranjan National Cancer Institute
स्वास्थ्य और परिवार कल्याण मंत्रालय
Ministry of Health & Family Welfare
37, S. P. Mukherjee Road, Kolkata-700 026

MAHARAJADHIRAJ UDAY CHAND WOMEN'S COLLEGE

B.C. Road, Burdwan- 713 104 Phone- (0342) 2533168 / 2531900

Government Sponsored Degree College Estd-1955

E-mail < muewcburdwan@gmail.com >

A Constituent College of the University of Burdwan

Reaccredited by NAAC (Grade-B CGPA2.72)



Letter of Recommendation for Debrishi Modak
2019

06 July,

I have known Debrishi Modak as a post-graduate student in Zoology at Gurudas College since 2018, when he showed his interests towards field-based research on birds and its scope in the wetland ecosystems of Kolkata metropolis. Afterwards he started his master's thesis under my supervision. The master thesis proposed a primary study on the avian community structure in Shyamkhola wetlands, South 24 Parganas, with a special emphasis on their preferred habitat type and feeding based on presence-absence data as well as analyzing species diversity with abundance data through intensive field surveys in the wetland area. Results of Debrishi's MSc thesis appeared satisfactory; however, provided more time beyond his stipulated period of three months (Jan, 2019-Mar, 2019) would have illustrated in-depth understanding of the seasonal fluctuations of the bird community and more accurate predictions regarding species richness and diversity and the required minimum sample size for bird surveys in the area. This area demands such studies to a greater extent as it is presently under threat from expanding urbanization and habitat destruction.

I found Debrishi well-motivated, hard-working and independent. Naturally, he needed advice and guidance, but at the level of ideas, directions and priorities. The scope of work we outlined has been successfully completed by him within the stipulated time.

In conclusion, I recommend Debrishi Modak's MSc thesis be accepted for defense.

Dr. Soumyajit Chowdhury



CERTIFICATE OF COMPLETION

This is to certify that Mr. /Ms. Trisha Bhattacharjee has successfully completed his/her summer internship on the role of *AS3MT* gene in arsenic-induced carcinogenesis and toxicity: a case control study in West Bengal conducted from 10th January 2019 to 15th March 2019 under the supervision of **Dr. Pritha Bhattacharjee** at the Environmental Epigenomics Laboratory, Department of Environmental Science, University of Calcutta.

Pritha Bhattacharjee
Dr. Pritha Bhattacharjee

Date: *25/03/2019*.....

Pritha Bhattacharjee, PH.D
Assistant Professor
Department of Environmental Science
Calcutta University Kolkata



Chittaranjan National Cancer Institute

(An Autonomous Body under Ministry of Health and Family Welfare)

37, S P Mukherjee Road, Kolkata 700 026

Tel: 2476-5101/02extn 304 Fax 91-33-2475-7606

Website WWW.CNCLONG.IN

TO WHOM IT MAY CONCERN

This is to certify that this project entitled "*Clinicopathological characteristics and Immunohistochemical expression of Ki-67 in Advanced Ovarian Cancer Tissue*" submitted by Ms. Sneha Das, M.Sc- 2nd Year, 4th Semester, Gurudas College, University Of Calcutta, is her dissertation for 3 months carried out successfully in the Department of Pathology and Cancer Screening, Chittaranjan National Cancer Institute, Kolkata, during the period of 15.01.2019 to 31.03.2019 under my supervision.

I wish her all the success in future.

Dr. Vilas D. Nasare

Vilas D. Nasare, Ph.D

Senior Scientific Officer

Pathology & Cancer Screening

Chittaranjan National Cancer Institute

37, S P Mukherjee Road

Kolkata - 700 026, INDIA

Date 30.03.19

Place Kolkata

Phone : 2350-5687
2354-3853
Fax : (033) 2350-5687



RAMMOHAN COLLEGE

(Formerly City College W. Dept.)
102/1, Raja Rammohan Sarani, Kolkata-700 009
E-mail : rmc.tic85b@yahoo.in
Accredited B++Grade by NAAC

Ref.

Date 10 - 06 - 2019

Certificate

This is to certify that the works embodied in the dissertation entitled "EFFECT OF CHRONIC CALCIUM CARBIDE EXPOSURE ON PULMONARY TISSUE OF MICE -AN *IN VIVO* STUDY" have been carried out by Mr. Prosenjit Roy, 4th semester student in master degree course in Zoology of Gurudas College, Kolkata (affiliated to University of Calcutta) under my supervision. The work is original and has not previously been submitted partly or entirely anywhere else for assessment.

Kaustav Dutta Chowdhury
10/06/19

DR. KAUSTAV DUTTA CHOWDHURY
ASSISTANT PROFESSOR
DEPARTMENT OF ZOOLOGY
RAMMOHAN COLLEGE
KOLKATA-09



CERTIFICATE OF COMPLETION

This is to certify that Mr. /Ms. Kankana Maity has successfully completed his/her summer internship on Association of *FTO* rs9939609 polymorphism with Obesity conducted from 10th January, 2019 to 15th March, 2019, under the supervision of **Dr. Pritha Bhattacharjee** at the Environmental Epigenomics Laboratory, Department of Environmental Science, University of Calcutta.

Pritha Bhattacharjee
Dr. Pritha Bhattacharjee

Date: 25/03/19

Dr. Pritha Bhattacharjee

Asst. Professor

Department of Environmental Science
University of Calcutta, Kolkata 700019



Chittaranjan National Cancer Institute

(An Autonomous Body under Ministry of Health and Family Welfare)

37, S.P. Mukherjee Road, Kolkata 700 026

Tel:2476-5101/02extn 304 Fax 91-33-2475-7606

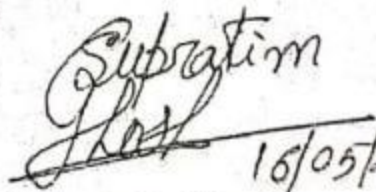
Website: www.cnigi.org.in

BONAFIDE CERTIFICATE

This is to certify that the project titled " **Development of multi-modality nano conjugate & investigation of its InVivo anticancer activity in Swiss Albino Mice** " is a bonafied work carried out by **Asmita Banerjee**, a student of Gurudas college ,Affiliated to **University of Calcutta** ,4th semester , in the **Department of Anti Cancer Drug Development Chittaranjan National Cancer Institute** under the supervision of **Dr. Supratim Ghosh** . The duration of work was from 15.01.2019 – 5.03.2017

SUPERVISOR

Dr. Supratim Ghosh
Senior Scientific Officer (Gr. II)
Chittaranjan National Cancer Institute
37, S. P. Mukherjee Road, Kolkata-700 026


16/05/2019

Dr. Supratim Ghosh
(Senior scientific officer, Gr II
Department of Anticancer Drug
Development)



DEPARTMENT OF VETERINARY BIOCHEMISTRY

FACULTY OF VETERINARY & ANIMAL SCIENCE

WEST BENGAL UNIVERSITY OF ANIMAL & FISHERY SCIENCES

37, K. B. Sarani, Kolkata - 700 037 & Mohanpur, Nadia - 741252

No. VBC/87/1/2019

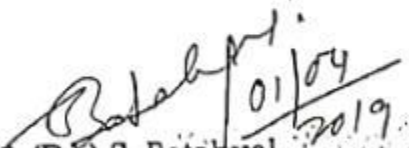
Date: 01/04/2019

CERTIFICATE

This is to certify that Mr. Biki Ghosal, S/O- Manu Ghosal, student of M.Sc. in Zoology of Gurudas College, Kolkata, Roll no. GC/17/PGZ/09, Reg.no. 313-1121-0236-14 has successfully completed his Dissertation work on "Isolation, Purification of IgG from serum and general characteristics of IgG" in the Department of Veterinary Biochemistry, West Bengal University of Animal and Fishery Sciences, during the period from 14.01.2019 to 30.03.2019.

I wish him every success in life.

Date: 01/04
2019


Prof. (Dr.) S. Batabyal
Head, Dept. of Vety. Biochemistry
F/O- VAS, WBUAFS

Prof. (Dr.) Subhasis Batabyal
Professor & Head
DEPARTMENT OF VETERINARY BIOCHEMISTRY
F/O. Veterinary & Animal Sciences, WBUAFS
37, K. B. Sarani, Kolkata-700037

CERTIFICATE OF COMPLETION

This is to certify that Ms. Anjita Adhikary, student of Department of Zoology, Gurudas College, has successfully completed her dissertation on the "WILD FISHES IN THE WATER OF SUNDARBANS (INDIA)" conducted from 10th January to 31st March 2019 under my supervision.



Dr. Silanjan Bhattacharyya

Professor

Department of Zoology

West Bengal State University

03/07/2019
Date:



लक्ष्यं विद्यमानम्

WEST BENGAL STATE UNIVERSITY

CERTIFICATE OF COMPLETION

This is to certify that Ms. Pritha Mukherjee, a student of Department of Zoology, Gurudas College, has successfully completed her dissertation on the "COMPARATIVE MORPHOMETRY OF FIVE SPECIES OF LONG BEAK FISH (ORDER BELONIFORMES) OCCURRING IN SOUTH WEST BENGAL" conducted from 10th January 2019 to 31st March 2019 under my supervision.

Dr. Silanjan Bhattacharyya

Professor
Department of Zoology
West Bengal State University

Date: 03/07/2019



ICAR-CENTRAL INSTITUTE OF FISHERIES EDUCATION
(Deemed University) Kolkata Centre
32-GN Block, Sector-V, Salt Lake City, Kolkata-700091
Tel: 09836849332, Fax: 033-2357 3469/6197, Website: www.cife.edu.in



Dr. B.K. Mahapatra, M.Sc., Ph. D. (Cal), D. Lit (Lond),
FZS (Cal), FIFSI, FZSI, FAEB
Principal Scientist & Former Scientist-In-Charge

CERTIFICATE

It is certified that this dissertation entitled "STUDIES ON ECO-BIOLOGY OF INDIGENOUS ORNAMENTAL FISH SCARLET BADIS, *DARIO DARIO* (HAMILTON, 1822) UNDER CAPTIVE CONDITION" is an authentic work done by Miss. Ayosi Mondal, Department of Zoology, Gurudas College, under my supervision, as part of partial fulfillment of the requirements for the degree of M.Sc in Zoology and further that no part thereof has been presented before for any other degree.

Date: 01.07.2019

Place: Kolkata, West Bengal

(B. K. Mahapatra)

Guide

DR. B. K. MAHAPATRA
Principal Scientist
Central Institute of Fisheries Education
Kolkata Centre
32, G N Block, Sector - V, Salt Lake City
Kolkata-700 091



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Principal Scientist & Former Scientist-In-Charge

CERTIFICATE

It is certified that this dissertation entitled "STUDIES ON ECO-BIOLOGY OF INDIGENOUS ORNAMENTAL BLUE PERCH, *Badis badis* (Hamilton, 1822) UNDER CAPTIVE CONDITION" Is an authentic work done by Miss. Sayarina Sengupta, Department of Zoology, Gurudas College, under my supervision, as part of partial fulfillment of the requirements for the degree of M.Sc in Zoology and further that no part thereof has been presented before for any other degree.

Date: 01/07/2019

Place: Kolkata, West Bengal

(B. K. Mahapatra)

Guide
DR. B. K. MAHAPATRA
Principal Scientist
Central Institute of Fisheries Education
Kolkata Centre
32, G N Block, Sector - V, Salt Lake City
Kolkata-700 091

CERTIFICATE

This is to certify that Ms. Soumi Jana has prepared this project titled "EVALUATION OF ELLAGIC ACID NANOFORMULATIONS IN TUMOR GROWTH *IN VIVO*", under my guidance & to my satisfaction, in partial fulfilment of the requirement for M.Sc degree in Zoology.



Signature of Guide

Guided By

Dr. Biswarup Basu

Senior Scientific Officer Grade II

Department of Neuroendocrinology

Chittaranjan National Cancer Institute Kolkata

Certificate

This is to certify that Ms. Priyanka Dutta, IV Semester M.Sc (Zoology) in Gurudas College under Calcutta University has successfully completed her two months fifteen days Training Project Work on " " under my supervision in the department of Immunoregulation & Immunodiagnostics, Chittaranjan National Cancer Institute, Kolkata. She has shown keen interest in performing the experiments, participating in daily laboratory events & preparing her project report. She has acquired some experience through this project work that will help her to develop her career in "Research & Development".

This project consists of 22 pages.

Her work may be evaluated as :

Outstanding/Excellent/Very Good /Average/Poor

Date: 6/5/2019

Place: Kolkata

Signature

Saptak Banerjee

(Dr. Saptak Banerjee)



सी.एस.आई.आर - भारतीय रासायनिक जीवविज्ञान संस्थान

वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद की एक इकाई
विज्ञान एवं प्रौद्योगिकी मंत्रालय के अधीन, एक स्वायत्त निकाय, भारत सरकार
4, राजा एस. सी. मुल्लिक रोड, जदवपुर, कोलकाता - 700 032

CSIR - INDIAN INSTITUTE OF CHEMICAL BIOLOGY

A Unit of Council of Scientific & Industrial Research
An Autonomous Body, under Ministry of Science & Technology, Government of India
4, Raja S. C. Mullick Road, Jadavpur, Kolkata-700 032



Sib Sankar Roy, Ph.D.
Senior Principal Scientist

Date: 06/05/2019

CERTIFICATE

To Whom It May Concern

This is to certify that Ms. Aratrika Dutta, pursuing M.Sc. in Zoology from Gurudas College, affiliated to University of Calcutta, has successfully completed a dissertation project in my laboratory. The topic of her project was "The Role of PitX2 in Ovarian Cancer Metabolism", which was performed during the time period of January 11th to March 31st, 2019. Aratrika has contributed significantly to complete the project and got very important results to decipher the regulation of ovarian cancer metabolism. During this tenure, she has learned many techniques that are being used in modern biological research viz. plasmid isolation, restriction digestion, agarose gel electrophoresis, SDS-PAGE, Western blot analysis, PCR, etc. During this tenure, I found Aratrika very sincere and hard working. She possesses good moral character, noticeable research aptitude and strong theoretical knowledge. Aratrika has been very co-operative to other colleagues in the laboratory during her training period. She has all good qualities for being a qualified scientific researcher in future.

This report is a bona fide record of her scientific progress. This report or any part thereof has not been submitted elsewhere for any other degree or diploma.

I wish Aratrika all the success in her academic career.

Dr. Sib Sankar Roy, PhD, FNASc, FAScT

(Senior Principal Scientist)

Cell Biology and Physiology Division,

CSIR-Indian Institute of Chemical Biology, Kolkata.



Sib Sankar Roy, Ph.D.
Scientist

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Tel : (Off.) 2475-9313/2475-8057 (EPABX) : 2475-5101, 5102, 5104
E-Mail : cnclinst@vsnl.com <http://www.nci.org.in>

Sankhadeep Dutta, Ph.D

Senior Scientific Officer, Grade-II
Department of Oncogene Regulation
Email: sordeep.d@gmail.com

To whom it may concern

This is to certify that Ms. Sayani Banerjee, M.Sc. (2nd year) student from the Dept. of Zoology, Gurudas College under University of Calcutta has successfully accomplished a short term project titled “**ROLE OF CONFOUNDING ETIOLOGICAL FACTORS IN HIGH RISK HPV ASSOCIATED CERVICAL CANCER DEVELOPMENT**” under my supervision in March, 2019.


24/03/19

Dr. Sankhadeep Dutta

Dr. Sankhadeep Dutta, Ph.D.
Senior Scientific Officer, Grade-II
Dept. of Oncogene Regulation
CHITTARANJAN NATIONAL CANCER INSTITUTE
37, S. P. Mukherjee Road, Kolkata-700 026

DEPARTMENT OF ZOOLOGY
Field Studies and Excursions

Third year (General) excursion

The third year general students are taken on their syllabus demanded compulsory local excursion, usually to the surrounding wetlands at Eastern Metropolitan Bypass (No. 4 Bheri, Government Fishery Farm) for a field study. They have to submit a report with photographic proof at the end of the study.

If the excursion is to the wetlands, the students, apart from making a note and studying the local fauna, measure the various parameters of the water body, and receive an in-depth lecture regarding fish farming methods there.

2017-18– No. 4 Bheri (18.01.18)

2018-19– No. 4 Bheri (15.12.18)

First and Second year (General) excursion

These students have to visit either or both the Alipore Zoological Gardens and The Indian Museum for their syllabus demanded compulsory local excursions, and write a report.

In the Zoological Gardens, the students visit as many animals as possible, take photographs and make a note of the animal visited, the scientific name of the animal, and its habits and habitat.

In the Indian Museum, the students visit all the galleries of Zoological interest, take photographs wherever allowed, and make a note of the specimens viewed and any other information given by the museum.

Both excursions are in order to give the student an idea of *ex situ* conservation as well as an idea of biodiversity and evolution.

2016-17 – Zoological Gardens (10.03.17), Indian Museum (13.04.17)

2017-18– Zoological Gardens (05.12.17), Indian Museum (10.11.17)

Second and Thirdyear (Honours) excursion

The students(the department usually takes both second and third year honours students in a joint excursion every alternate year) are taken on a long distance syllabus demanded compulsory field study for ecosystem and biodiversity assessment to a marine ecosystem (Bakkhali-Frasergunj, West Bengal/ Chandipur Beach, Odisha). The students usually spend a couple of days in the area, making various studies like:

- Ecosystem Study
- Biodiversity Study
- Line Transect Sampling Study
- Quadrat Sampling Method
- Zonations Of Marine Ecosystem

- The Abundance Or Point Diversity Method
- Light Trap Study
- Bird Watching
- Dominant species study

Apart from this, the students do two other things (since the revised 2016 syllabus)

- An environmental audit report by recording faunal diversity along with ecological notes and photographic demonstration in two seasons in a local area (we use the College Library grounds)
- Visit an institution of Zoological interest (in our case the Alipore Zoological Gardens to study *ex situ* conservation)

2018– Chandipur Beach (10-13.11.18), Zoological Gardens (11.12.18) – 53 candidates

3 H ZOOA (22 candidates)

SAYANTIKA SAHA
SHARMISTHA PAUL
PRITISA SAHOO
DWAITA SARKAR
SWEETY DAS
POULAMI DEY
EERONDYUTI CHAKRABORTY
DEBDATTA CHATTERJEE
TRISHITA MONDAL
PURBITA GHOSH
LIDIA SENGUPTA

UTPAL MONDOL
ABDULLA MOLLA
DULAL TUDU
PRANAY DAS
SOVIK DAS
SOHAM MITRA
DEBARSHI BAKSHI
KRISHNENDU DUTTA
NIRUPAM PAUL
ANINDYA SUNDAR GARAI
MADHULIMA DE

2H ZOOA (31 candidates)

RAKIBUDDIN AHMED
SUKLAL SAMADDER
ARGHYADEEP BANERJEE
SHALIM REZA
SUBANDHU CHAKRABORTY
SWASTIK BISWAS
AMARTYA CHAKRABORTY
SOURAV BASAK
SOMROOP CHAKRAVARTI
ARNAB SARKAR
ARGHYARUP MANDAL
PRANTICK SHEE
SUSMITA DUTTA
OINDRILA DE
TIASHA CHAKRABORTY
RAYA NANDI
SAYANTIKA ROY
ALIMPIA CHAKRABORTY

UDITA BANDOPADHYAYA
SUSMITA SARKAR
ARIJITA ROY
PROTHOMA NASKAR
LORNA SARKAR
ARPITA DAS
MONALISHA SADHUKHAN
SAYANTANI KUNDU
PRAYOSEE GHOSH