



Nallamuthu Gounder Mahalingam College

Accredited with A++ Grade(4th Cycle) by NAAC and ISO 9001:2015 Certified Institution

An Autonomous Institution, Affiliated to Bharathiar University,
90, Palghat Road, Pollachi -642001, Tamilnadu, INDIA, Coimbatore

Participative Learning (Sample Copy) (2023-2024)

Name of the Department: Department of computer Application

Academic Year: 2023-2024

Student Centric Methods: Participative learning

Nallamuthu Gounder Mahalingam College, Pollachi

List of Student Centric Activities for the Academic year 2023-2024

S.No	Student Name	Class & Semester	Events/Seminar/Conference/Games /Course	Name of the Activity	Date
1	Abdul Kalam S	BCA	Value Added Course	PC Assembly & Trouble Shooting	13.07.2023
2	Agalya G I	BCA	Value Added Course	PC Assembly & Trouble Shooting	13.07.2023
3	Nayana R	BCA	Value Added Course	PC Assembly & Trouble Shooting	13.07.2023
4	Sreeja E	BCA	Value Added Course	PC Assembly & Trouble Shooting	13.07.2023
5	Dharshini S	BCA	Value Added Course	PC Assembly & Trouble Shooting	13.07.2023
6	Velmurugan N	BCA	Value Added Course	Introduction to Web Services a Practical Approach	13.07.2023
7	Sakthi Surya R S	BCA	Course	Generative AI Mega Workshop	08.08.2023
8	Sakthi Surya R S	BCA	Course	Creative Website	09.08.2023
9	Varshini S	BCA	Chithiram-2023	Quiz	18.08.2023
10	Arunachalam S	BCA	National Seminar	Futuristic AI & Open Source software	13.09.2023
11	Thiru Vengada A	BCA	National Seminar	Futuristic AI & Open Source software	13.09.2023

12	Dharshini Priya M	BCA	An English Voicing Forum	Impact of post pandemic on health society economy	19.10.2023
13	Kowsalya R	BCA	An English Voicing Forum	Impact of post pandemic on health society economy	19.10.2023
14	Varshini S	BCA	Certificate of Merit	Hand Embroidery	13.12.2023
15	Haripritha S D	BCA	Certificate of Merit	Hand Embroidery	13.12.2023
16	Kowsalya R	BCA	Certificate of Merit	Hand Embroidery	13.12.2023
17	Tamilselvi M	BCA	HARVEST Youth Festival	Face Painting	04.01.2024
18	Sakthi Surya R S	BCA	Seminar	Building a career in AI	09.01.2024
19	Hariprasad D	BCA	National Conference DL & CIS'24	Fake Profile Detection Using ML	10.01.2024
20	Durgaiprakash K	BCA	National Conference DL & CIS'24	Renewable Energy Resources	10.01.2024
21	Haripritha S D	BCA	National Conference DL & CIS'24	Renewable Energy Resources	10.01.2024
22	Mahalakshmi K R	BCA	National Conference DL & CIS'24	Fake Profile Detection Using ML	10.01.2024
23	Surya V	BCA	National Conference DL & CIS'24	Renewable Energy Resources	10.01.2024
24	Srimathi S	BCA	National Conference DL & CIS'24	Utility Computing	10.01.2024
25	Soundharya J	BCA	National Conference DL & CIS'24	Network Security	10.01.2024
26	Naveen Prasanth N	BCA	Annual Sports Meet	Foot Ball	30.01.2024

27	Mahalakshmi K R	BCA	Annual Sports Meet	Kho-Kho	30.01.2024
28	Sakthi Surya R S	BCA	Workshop	Building a Dashboard	31.01.2024
29	Mohamed Shariff M	BCA	Annual Sports Meet	Volley Ball	01.02.2024
30	Mohamed Shariff M	BCA	Annual Sports Meet	Basket Ball	03.02.2024
31	Mohamed Shariff M	BCA	Annual Sports Meet	Cricket	07.02.2024
32	Sudharsan M	BCA	An English Voicing Forum	Should Military Training be made Compulsory for all in India	08.02.2024
33	Arya u	BCA	An English Voicing Forum	Should Military Training be made Compulsory for all in India	08.02.2024
34	Mahalakshmi K R	BCA	Annual Sports Meet	Javalin	08.02.2024
35	Sakthi Surya R S	BCA	Course	Creating a Website	01.03.2024


Dr. K. HARIDAS, M.C.A., M.Phil., Ph.D.,
 Associate Prof. & Head,
 Department of Computer Applications,
 N.G.M. College (Autonomous), Pollachi - 642 001.


Dr. R. MUTHUKUMARAN,
M.A., M.Phil., B.Ed., Ph.D.,
PRINCIPAL
N.G.M. College, Pollachi - 642 001,
Coimbatore District

Signature of the Head with date

Signature of the Principal with date

Date : 06.08.19
 Venue : Vivekananda Arangam

Time : 11.00 Am

A Guest lecture on "Innovation and Entrepreneurship" is arranged for our B year students.

The Resource Person Dr. R. Amuthakannan delivered a guest lecture on "Innovation and Entrepreneurship" for the students. He explained about the need for Innovation in India, how to develop the innovative skills and how to convert the innovative idea into the Entrepreneurship. He interacted with the students and the lecture is end up with the queries answering to the queries raised by our students.

R. Amuthakannan
 06/08/19
 Chief Guest

Handa
 Convenor

[Dr. R. Amuthakannan
 Associate Professor
 National University,
 Muscat, Oman]

1. S. S. S.

2. Ananth...

3. R. K. K. K.

4. A. V.

R. S.

5. R.

Date : 16.8.19

Venue : III year classroom

Time : 3.00 p.m.

A Guest Lecture on "Employability Skills" is arranged for our III year students.

The Resource Person Mr. Naveen K. Our Alumni who is working in Networking Sector, Wipro Ltd. Coimbatore explained the students about the various employability skills and how to enhance them towards placement. He also explained the company scenario. He questioned the students about their expectations towards the IT companies and their reputations. Finally the session ended with student queries.

Naveen K
Coordinator

Guests :-

K Naveen
Networking Sector]
Wipro Ltd
Coimbatore

1. S. D. [Signature]

2. [Signature]

3. R. M. [Signature]

4. N. [Signature]

5. S. [Signature]

6. N. [Signature]

7. AV. [Signature]

8. [Signature]

9. [Signature]

Date: 06.09.19
Venue: IInd year classrooms

Time: 10:00 AM.

A Guest Lecture on "Company Requirement" is arranged for our IInd year students.

The Resource Person P. Ruban, Our Alumni working as Senior Process Executive in Infosys Bangalore explained a lot to BCA students about the needs & expectations of the current scenario in IT Companies. He also explained them how to meet the requirements of the companies. He introduced the various problems to the students with examples. The session finally ended with Student Queries.

Start
Convene

P. Ruban

P. Ruban
(Senior Process Executive)
Infosys, Bangalore

1. S. H.
2. Chinnaiyan S
3. R. R.
4. N. S.
5. - Absent -
6. N. D.

7. A. V.
- 8.
- 9.

19.12.19

11th Year Classroom

Time: 11.30 A.M.

A guest lecture on "Career Guidance" is arranged for our 11th Year students.

The resource person Navneet Kumar, our Alumni working as System Centre Configuration Management, Wipro, Coimbatore, gave guidance for IT Placement for the final year students. He explained about how the work environment will be in the IT companies, how to prepare resume, how to face the interview (Technical & HR). He concluded the session by clearing the student doubts regarding placements.

Navneet
Convener.

1.



2.

Absent (viva)

3.



4.

N. Shylu

5.



6.

N. Praveen

7.



8.

A. Praveen

9.



Navneet K.
Mr. K. Navneet Kumar
SCCM Engineer
Wipro, CBE.



NALLAMUTHU GOUNDER MAHALINGAM COLLEGE
(AUTONOMOUS)



An ISO 9001:2015 Certified Institution
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POLLACHI - 642 001

PLEXUS The Network
UG DEPARTMENT OF COMPUTER APPLICATIONS

Prayer Song : Deepika.K.C (III BCA-B)

Welcome Address : Sasi Maheswari.C (III BCA-A)

Presidential Address : Dr.P.M.Palanisamy
Principal, NGM College.

Keynote Address : Mr.P.Ganesh
Assistant Professor
Srividhya College, Virudhu Nagar.

Topic : "Hands on Training - Android"

Vote of Thanks : Umashankar. M (III BCA-B)

National Anthem

Date: 03.10.2019

Time : 11.00 A.M

Venue: Vivekanandar Hall





Date: 10.10.19

Venue: Alkondan Hall

87

Time: 11.00 A.M.

A Guest Lecture on "Human Rights in India" is arranged for our first year students.

The Resource Person, Dr. L. Ranjith, Head MSW Department, N.G.M. College, Pollachi handled the session very interestingly. Not only the rights allocated to each and every citizen, he also pointed out the facts and issues related to human rights in our country. He rightly stated out the rights belonging to women and children, which protect them from the evil eye. The session ended with student queries.

L. Ranjith

Dr. L. Ranjith
Head, MSW Department
N.G.M. College
Pollachi

Header
Convener

1. S. V. S.
2. Anandam...
3. R. M. S.
4. N. S. S.
5. S. S. S.
6. N. S. S.
7. A. V. S.

8. S. S.
9. S. S.







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PLEXUS The Network
UG DEPARTMENT OF COMPUTER APPLICATIONS

Prayer Song : Mugundhan.R (D2 BCA 'A')
Welcome Address : Flora Jenifer.J (D2 BCA 'B')
Keynote Address : Ms.K.Gnanasundari
Former Assistant Professor
Department of Commerce (CA &PA)
Sankara College of Science & Commerce
Coimbatore.

Enhancing Skills – 'Secret Of Success'

Vote of Thanks : Priyadharshini.S (D2 BCA 'B')
National Anthem

Date: 04.02.2020

Time : 10.00 A.M

Venue: Vivekananda







NGM COLLEGE (AUTONOMOUS) POLLACHI

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Affiliated to Bharathiar University, Coimbatore.

Department of Physical Education

Annual Sports Meet 2023-2024

CERTIFICATE OF MERIT

This is to certify that

Selvan/ Selvi ...MAHA LAKSHMI.....ofBCA.....
participated in the Game/ eventJAVAJIN.....
and won the ..RUNNER.....position in the Annual Sports Meet held at
NGM College, Pollachi on.....08.02.2024....

Director of Physical Education

Principal



NM100
CENTENARY CELEBRATIONS



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Pollachi - 642 001.



CERTIFICATE VOX POPULI (AN ENGLISH VOICING FORUM)

This is to certify that Mr./Ms. Anyra. N of BCE - 1st year
has participated and presented his / her oration on the topic Should Military Training
be made compulsory for all in India organized by the Vox Populi Forum of
Nallamuthu Gounder Mahalingam College, Pollachi held on 08.02.2024

[Signature]
Co-ordinator

N. Subashini
Moderator

[Signature]
Principal



NALLAMUTHU GOUNDER MAHALINGAM COLLEGE



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Pollachi - 642 001.



CERTIFICATE

VOX POPULI

(AN ENGLISH VOICING FORUM)

This is to certify that Mr./Ms. Sudhasan. M of BCA-I Year
has participated and presented his / her oration on the topic Should Military Training
be made compulsory for all in India organized by the Vox Populi Forum of
Nallamuthu Gounder Mahalingam College, Pollachi held on 08.02.2024

Flour
Co-Ordinator

N, Subashan
Moderator

[Signature]
Principal



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NM100
CENTENARY CELEBRATIONS

Department of Physical Education
Annual Sports Meet 2023-2024

CERTIFICATE OF MERIT

This is to certify that

Selvan/ Selvi ...**M.MAHAMMAD SHARIF**... of ...**B.A IInd**...
participated in the Game/ event ...**CRICKET**...
and won the ...**RUNNER**... position in the Annual Sports Meet held at
NGM College, Pollachi on...**17.12.2024**.....


Director of Physical Education


Principal



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NM100
CENTRAL LIBRARY

Department of Physical Education
Annual Sports Meet 2023-2024

CERTIFICATE OF MERIT

This is to certify that

Selvan/ Selvi ..M. MOHAMMED. SHARIEF.....ofB.C.A.....
participated in the Game/ eventBASKET BALL.....
and won theWINNER.....position in the Annual Sports Meet held at
NGM College, Pollachi on...03.12.2024.....

Director of Physical Education

Principal



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NAAC
NMA100
CERTIFICATE OF MERIT

Department of Physical Education
Annual Sports Meet 2023-2024

CERTIFICATE OF MERIT

This is to certify that

Selvan/ Selvi .M.MADHANMED..SHARIFE.....ofBCA.....
participated in the Game/ eventVOLLEYBALL.....
and won the ...RUNNER.....position in the Annual Sports Meet held at

NGM College, Pollachi on...D.1.02.2024.....


Director of Physical Education


Principal

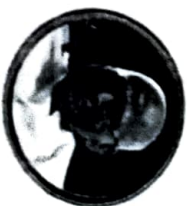


NGM COLLEGE (AUTONOMOUS) POLLACHI

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Department of Physical Education

Annual Sports Meet 2023 -2024



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CENTENARY CELEBRATIONS

CERTIFICATE OF MERIT

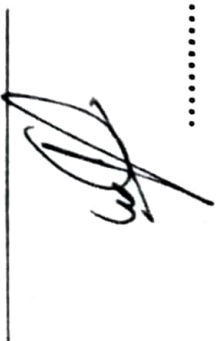
This is to certify that

Selvan/ Selvi *K.R. Mahalakshmi* of ... *1st BCA*
participated in the Game/ event *Kho: Kho*
and won the *Runner* position in the Annual Sports Meet held at

NGM College, Pollachi on..... *30.01.2024*



Director of Physical Education



Principal



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Department of Physical Education

Annual Sports Meet 2023-2024



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CENTENARY CELEBRATIONS

CERTIFICATE OF MERIT

This is to certify that

Selvan/ Selvi ..M..MOHAMMED..SHARIF.....of ...BCA.....
participated in the Game/ eventFOOTBALL.....
and won theWINNER.....position in the Annual Sports Meet held at
NGM College, Pollachi on.....30.01.2024.....

Director of Physical Education

Principal



NGM COLLEGE (AUTONOMOUS) POLLACHI

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NM100
NATIONAL MERIT
CERTIFICATE

Department of Physical Education
Annual Sports Meet 2023 -2024

CERTIFICATE OF MERIT

This is to certify that

Selvan/ Selvi *Naveen Prasanth N* of *iiird year B.A*
participated in the Game/ event *Foot Ball*
and won the *Winner* position in the Annual Sports Meet held at

NGM College, Pollachi on..... *22.01.2024*

Director of Physical Education

Principal



NALLAMUTHU COUNDER MAHALINGAM COLLEGE

(Autonomous)

Re-Accredited by NAAC & ISO 9001 : 2015 Certified Institution & Ranked 95th at National Level in
NIRF 2023 Affiliated to Bharathiar University, Coimbatore.

POLLACHI - 642 001



Two Day National Conference on

DEEP LEARNING & COMPUTER INTERACTION FOR SUSTAINABILITY - DLCIS' 24

Certificate

This is to certify that **SRUNDHARYA . J** **22-EC-113** **i - BCA - 13**
from **NGM** **COLLEGE** has
participated / presented a paper on **NETWORK SECURITY**
..... in the Two Day National Conference
on "Deep Learning & Computer Interaction for Sustainability - DLCIS' 24" on 10th & 11th January 2024
organized by **UG Department of Computer Applications, NGM College, Pollachi.**

Convenor

Dr. K. Haridas

Academic Dean

Dr. S. Saravana Babu

Principal

Dr. R. Muthukumaran



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POLLACHI - 642 001



Two Day National Conference on

DEEP LEARNING & COMPUTER INTERACTION FOR SUSTAINABILITY - DLCIS' 24

Certificate

This is to certify that SRI. MATHI. S. 23-BE-115 i - BCA-B
from NGM COLLEGE has
participated / presented a paper on UTILITY COMPUTING
..... in the Two Day National Conference
on "Deep Learning & Computer Interaction for Sustainability - DLCIS' 24" on 10th & 11th January 2024
organized by UG Department of Computer Applications, NGM College, Pollachi.

Convener

Dr. K. Haridas

Academic Dean

Dr. S. Saravana Babu

Principal

Dr. R. Sathish Kumar



NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

(A Uththamam)

Has Accredited by NAAC & ISO 9001:2015 Certified Institution & Ranked 93rd at National Level in
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POLLACHI - 642 001



Two Day National Conference on

DEEP LEARNING & COMPUTER INTERACTION FOR SUSTAINABILITY - DLCIS' 24

Certificate

This is to certify that ...**GAYATHRI, P. M.**.....**23-BCE-32**.....**J-BCA 'A'**.....
from ...**NGM COLLEGE**..... has
participated / presented a paper on in the Two Day National Conference
..... on "Deep Learning & Computer Interaction for Sustainability - DLCIS' 24" on 10th & 11th January 2024
organized by UG Department of Computer Applications, NGM College, Pollachi.


Convenor
Dr. K. Haridas


Academic Dean
Dr. S. Saravana Babu


Principal
Dr. R. Muthukumar



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POLLACHI - 642 001



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DEEP LEARNING & COMPUTER INTERACTION FOR SUSTAINABILITY - DLCIS' 24

Certificate

This is to certify that SURYA . V 23-Bc-118 i - Bca - B
from NGM COLLEGE..... has
~~participated~~ / presented a paper on RENEWABLE ENERGY RESOURCES.....

..... in the Two Day National Conference
on "Deep Learning & Computer Interaction for Sustainability - DLCIS' 24" on 10th & 11th January 2024
organized by UG Department of Computer Applications, NGM College, Pollachi.


Convenor

Dr. K. Haridas


Academic Dean

Dr. S. Saravana Babu


Principal

Dr. R. Muthukumaran



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Certificate

This is to certify that **MAHALAKSHMI. K.R.** **23-BC-103** **i-BCA - B**
from **NGM** **COLLEGE** has
participated / presented a paper on **FAKE PROFILE DETECTION USING**
..... **MACHINE LEARNING** in the Two Day National Conference
on "Deep Learning & Computer Interaction for Sustainability - DLCIS' 24" on 10th & 11th January 2024
organized by UG Department of Computer Applications, NGM College, Pollachi.

Convenor

Dr. K. Haridas

Academic Dean

Dr. S. Saravana Babu

Principal

Dr. R. Muthukumarar



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Two Day National Conference on

DEEP LEARNING & COMPUTER INTERACTION FOR SUSTAINABILITY - DLCIS' 24

Certificate

This is to certify that **HARIPRITHA S.D** **23-BC-92** **i-BCA - B**
from **NGM COLLEGE** has
participated / presented a paper on **RENEWABLE ENERGY RESOURCES**
..... in the Two Day National Conference
on "Deep Learning & Computer Interaction for Sustainability - DLCIS' 24" on 10th & 11th January 2024
organized by **UG Department of Computer Applications, NGM College, Pollachi.**

Haridas

Convenor

Dr. K. Haridas

Saravana Babu

Academic Dean

Dr. S. Saravana Babu

Muthukumar

Principal

Dr. R. Muthukumar



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Certificate

This is to certify that **DURGAL PRAKASH .K** **23-BSC-66** **I-BCA-B**
from **NGM COLLEGE** has
participated / presented a paper on **RENEWABLE ENERGY RESOURCES**
..... in the Two Day National Conference
on "Deep Learning & Computer Interaction for Sustainability - DLCIS' 24" on 10th & 11th January 2024
organized by **UG Department of Computer Applications, NGM College, Pollachi.**

Haridas

Convener

Dr. K. Haridas

Saravana

Academic Dean

Dr. S. Saravana Babu

Muthukumar

Principal

Dr. R. Muthukumaran



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Two Day National Conference on DEEP LEARNING & COMPUTER INTERACTION FOR SUSTAINABILITY - DLCIS' 24 Certificate

This is to certify that HARI PRASAD D 23-BC-68 i - BCA - B has
from NGM COLLEGE.....
participated / presented a paper on FAKE PROFILE DETECTION USING.....
MACHINE LEARNING..... in the Two Day National Conference
on "Deep Learning & Computer Interaction for Sustainability - DLCIS' 24" on 10th & 11th January 2024
organized by **UG Department of Computer Applications, NGM College, Pollachi.**



Convenor

Dr. K. Haridas



Academic Dean

Dr. S. Saravana Babu



Principal

Dr. R. Muthukumar



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Two Day National Conference on

DEEP LEARNING & COMPUTER INTERACTION FOR SUSTAINABILITY - DLCIS' 24

Certificate

This is to certify that **KALPANA : M** **23-DEC-24** **i - BCA - B**
from **NGM COLLEGE** has
participated / presented a paper on **A DEEP DIVE INTO BUSINESS ANALYTICS**
..... **AND APPLICATIONS** in the Two Day National Conference
on "Deep Learning & Computer Interaction for Sustainability - DLCIS' 24" on 10th & 11th January 2024
organized by **UG Department of Computer Applications, NGM College, Pollachi.**

Convenor

Dr. K. Haridas

Academic Dean

Dr. S. Saravana Babu

Principal

Dr. R. Muthukumaran

SREE SARASWATHI THYAGARAJA COLLEGE



Approved by the Ministry of Education, Government of India. Affiliated to Bharathiar University, Coimbatore. Approved by AICTE for Management Studies by UGC for 2019 & 2023 status.

Pollachi, Coimbatore - 642 107

STC - SCHOOL OF MANAGEMENT

HARVEST

Youth Festival @ Pollachi

4th January 2024

Certificate of Excellence

This is to certify that Mr. / Ms.**TAMILSELVI**..... of**NGM COLLEGE OF ARTS AND SCIENCE**... studying**BCA**..... has participated / won prize in **FACE PAINTING**..... in the Inter-Collegiate Cultural Fest **HARVEST** organised by the STC - School of

Management held on January 04, 2024.



Dr. G. Manokaran
HOD, MBA

Dr. R. Nandagopal
Director General

Dr. A. Somu
Principal

Four Glances Art Club

Jain Alpine Meadows, 25th Block,
FJ, Temple Town Street, Thirunelmalai Road,
Chrompet, Chennai



CERTIFICATE OF MERIT

This is to certify that Ms.....S.D. Hanipriya, BCA.....
has participated in one day workshop on Hand Embroidery

organised by the Equal Opportunity Centre,
Nallamuthu Gounder Mahalingam college, Pollachi,

held on 13th Dec 2023.


Event Trainee

Narmadha Kavirajan
(Fashion Designer)


Equal Opportunity Centre
Co-ordinator

Dr. P. Brundha


Principal's

Dr. R. Muthukumar



Four Flames Art Club
(Eoin white logo)
Join Alpine Meadows, 25th Block,
FJ, Temple Town Street, Thirunelmalai Road,
Chrompet, Chennai

CERTIFICATE OF MERIT

This is to certify that Ms. R. Kousalya, BCA
has participated in one day workshop on Hand Embroidery
organised by the Equal Opportunity Centre,
Nallamuthu Gounder Mahalingam college, Pollachi,
held on 13th Dec 2023.


Event Trainee
Narmadha Kavirajan
(Fashion Designer)


Equal Opportunity Centre
Co-ordinator
Dr. P. Brundha


Principal's
Dr. R. Muthukumaran



Four Flames Art Club
(Earn while learn)

Join Alpine Meadows, 25th Block,
FJ, Temple Town Street, Thirunelmalai Road,
Chrompet, Chennai

CERTIFICATE OF MERIT

This is to certify that Ms.....S.Vasanthini, BCA
has participated in one day workshop on Hand Embroidery
organised by the Equal Opportunity Centre,
Nallamuthu Gounder Mahalingam college, Pollachi,
held on 13th Dec 2023.


Event Trainee

Narmadha Kavirajan
(Fashion Designer)


Equal Opportunity Centre
Co-ordinator

Dr. P. Brundha



Dr. R. Muthukumar
Principal's



NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

(An Autonomous College Affiliated to Bharathiar University, Coimbatore)
Re-Accredited by NAAC : An ISO 9001 : 2015 Certified Institution

Pollachi - 642 001.



CERTIFICATE

VOX POPULI

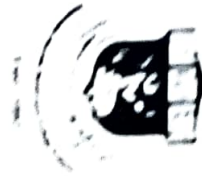
(AN ENGLISH VOICING FORUM)

This is to certify that Mr./Ms. KOMSALYA R of I - BCA
has participated and presented his / her oration on the topic IMPACT OF POST PANDEMIC
ON HEALTH SOCIETY ECONOMY organized by the Vox Populi Forum of
Nallamuthu Gounder Mahalingam College, Pollachi held on 19.10.2023

19/10/2023
Co-ordinator

19/10/2023
Moderator

Principal



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CERTIFICATE

VOX POPULI

(AN ENGLISH VOICING FORUM)

This is to certify that Mr./Ms. DARSINI PRIYA.M of I - BCA

has participated and presented his / her oration on the topic IMPACT OF POST PANDEMIC

ON HEALTH SOCIETY ECONOMY organized by the Vox Populi Forum of

Nallamuthu Gounder Mahalingam College, Pollachi held on 19.10.2023


Coordinator


Moderator


Principal



Participation Certificate



MEHRU ARTS AND SCIENCE COLLEGE

(AUTONOMOUS)

Affiliated to Bharathiar University, Coimbatore with 2nd Grade for 1994-95, ISO 9001:2015 (2015) Certified, Recognized by UGC with 2(B) & 2(B), Under Star College Scheme by UGC, Govt of India, Telling Certificate, The Government of India, Coimbatore - 641 103, Tamil Nadu, India. Web : www.mehruartscollege.ac.in

**One Day National Seminar on
Futuristic AI & Open Source Software**
Jointly Organized by SCHOOL OF COMPUTATIONAL SCIENCES & CENTRE FOR DIGITAL LEARNING (CDL)

This is to certify that Dr. / Mr. / Mrs. **A. THIRU VENKATDA**

from Nallanathu Gounder Mahalingam College

has attended One Day National Seminar on "Futuristic AI & Open Source Software" organized by School of Computational Sciences and Centre for Digital Learning (CDL), Mehru Arts and Science College, Coimbatore on 13.04.2023.

Dr. N. Sarinje
Coordinator

Dr. K. Srinivasan
Dean, SCS

Dr. J. Srinivasan
Dean, SCS

Participation Certificate



NEHRU ARTS AND SCIENCE COLLEGE

(AUTONOMOUS)

(Affiliated to Bangalore University, Recognized with 'A' Grade by NAAC, ISO 9001:2015 (2019) Certified, Accredited by UGC with 2B & 12B, Under Star College Scheme by DSI, Govt. of India)
Nehru College, Mysore, Mysore, Karnataka - 571 105, India.
Web : www.nahscollege.ac.in



One Day National Seminar on
Futuristic AI & Open Source Software
Jointly Organized by SCHOOL OF COMPUTATIONAL SCIENCES & CENTRE FOR DIGITAL LEARNING (CDL)

This is to certify that Dr. / Mr. / Mrs. S. ARUNACHALAM

from Nallamutha Gounder Mahalingam College

has attended One Day National Seminar on "Futuristic AI & Open Source Software" organized by School of Computational Sciences and Centre for Digital Learning (CDL), Nehru Arts and Science College, Coimbatore on 13.09.2023.

Dr. N. Saranya
CONVENER

Dr. K. Srinivasan
Dean, SOCS

Dr. K. Anandhan
Principal



Nallamuthu Gounder Mahalingam College, Pollachi

An Autonomous Institution Affiliated to Bharathiar University
Re-Accredited by NAAC & ISO 9001:2015 Certified Ranked in the
Rank band 101-150 by MHRD-NIRF 2022

Certificate of Merit

Fine Arts Club - Presents

Chithiram-2023

The Certificate of Merit is awarded to
Mr./Ms./Mrs./ Varshini . S Studing
B.C.A I in recognition of His/Her Exemplary
Performance and having won the _____
Place/Participation in the event _____
Under the Category _____ held on
18/08/2023.

"Where there are challenges there are opportunities!"

B. Aruljothi

Dr. B. Aruljothi
Co-ordinator

T. Geethanjali

Dr. T. Geethanjali
Co-ordinator

R. Muthukumaran

Dr. R. Muthukumaran
Principal



CERTIFICATE OF COMPLETION



NGM COLLEGE

(Autonomous), Pollachi

Re-Accredited by NAAC and ISO 9001 : 2015 Certified Institution
Ranked 72nd among Colleges in India by MHRD - NIRF
Affiliated to Bharathiar University, Coimbatore.

Value Added Course



This is to certify that Mr/Ms. N. VELMURUGAN

of BCA department

has successfully completed a Value Added Course

entitled INTRODUCTION TO AMAZON WEB SERVICES- and
A PRACTICAL APPROACH.

secured a mark of 54 out of 100

COURSE TEACHER

Shivani S.

DEAN - ACADEMIC

[Signature]

IQAC CO-ORDINATOR

[Signature]

PRINCIPAL

[Signature]



NGM COLLEGE

(Autonomous), Pollachi

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A PRACTICAL APPROACH.

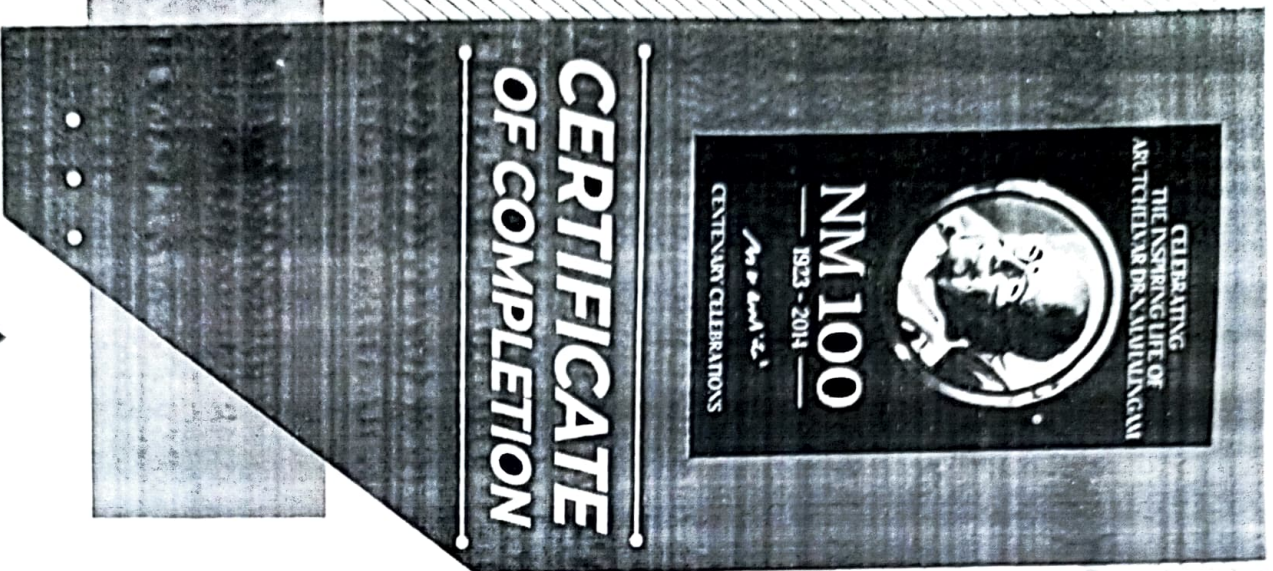
secured a mark of 54 out of 100

COURSE TEACHER

DEAN - ACADEMIC

IQAC CO-ORDINATOR

PRINCIPAL



NGM COLLEGE

(Autonomous), Pollachi

Re-Accredited by NAAC and ISO 9001 : 2015 Certified Institution
Ranked 72nd among Colleges in India by MHRD - NIRF
Affiliated to Bharathiar University, Coimbatore.

Value Added Course



This is to certify that ~~Mr.~~Ms. S. DARSHANI
of BCA department
has successfully completed a Value Added Course
entitled PC ASSEMBLY & TROUBLE SHOOTING and
secured a mark of 51 out of 100

COURSE TEACHER S. D. D. D.

DEAN - ACADEMIC [Signature]

IQAC CO-ORDINATOR [Signature]

PRINCIPAL [Signature]



CERTIFICATE OF COMPLETION



NGM COLLEGE

(Autonomous), Pollachi

Re-Accredited by NAAC and ISO 9001 : 2015 Certified Institution
Ranked 72nd among Colleges in India by NIRF - NIRF
Affiliated to Bharathiar University, Coimbatore.

Value Added Course



This is to certify that ~~Mr~~ Ms. E. SREETHA

of BCA department

has successfully completed a Value Added Course

entitled Pc ASSEMBLY & TROUBLESHOOTING and

secured a mark of 45 out of 100

S. Jagan
COURSE TEACHER

[Signature]
DEAN - ACADEMIC

[Signature]
IQAC CO-ORDINATOR

[Signature]
PRINCIPAL



CERTIFICATE OF COMPLETION



NGM COLLEGE

(Autonomous), Pollachi

Re-Accredited by NAAC and ISO 9001 : 2015 Certified Institution
Ranked 72nd among Colleges in India by MII RD - NIRF
Affiliated to Bharathiar University, Coimbatore.

Value Added Course



This is to certify that ~~Mr.~~ Ms. R. NAYANA

of B.C.A. department

has successfully completed a Value Added Course

entitled P.C. ASSEMBLY & TROUBLE SHOOTING and

secured a mark of 43 out of 100

[Signature]
COURSE TEACHER

[Signature]
DEAN - ACADEMIC

[Signature]
IQAC CO-ORDINATOR

[Signature]
PRINCIPAL



CERTIFICATE OF COMPLETION



NGM COLLEGE

(Autonomous), Pollachi

Re-Accredited by NAAC and ISO 9001 : 2015 Certified Institution
Ranked 72nd among Colleges in India by NIRPD - NIPF
Affiliated to Bharathiar University, Coimbatore.

Value Added Course



This is to certify that ~~Mr~~Ms. Gr. J. Aranya

of BCA department

has successfully completed a Value Added Course

entitled PC ASSEMBLY & TROUBLESHOOTING and

secured a mark of 59 out of 100

S. D. Jeyaraj
COURSE TEACHER

[Signature]
DEAN - ACADEMIC

[Signature]
IQAC CO-ORDINATOR

[Signature]
PRINCIPAL



CERTIFICATE OF COMPLETION



NGM COLLEGE

(Autonomous), Pollachi

Re-Accredited by NAAC and ISO 9001:2015 Certified Institution
Ranked 72nd among Colleges in India by VIKIR - NIRF
Affiliated to Bharathiar University, Coimbatore

Value Added Course



This is to certify that Mr/Ms. S. ABDUL KALAM

of BCA department

has successfully completed a Value Added Course

entitled PC ASSEMBLY & TROUBLE SHOOTING and

secured a mark of 48 out of 100

A. Purushotham

COURSE TEACHER

[Signature]
DEAN - ACADEMIC

[Signature]
IQAC CO-ORDINATOR

[Signature]
PRINCIPAL

Pollachi

09.11.2023

From,

Dr. K. Haridas,

Head, Department of Computer Applications

NGM College,

Pollachi

To,

The Principal,

NGM College,

Pollachi.

Respected Sir,

SUB: Requisition to conduct Advanced Learners Course End Semester Exam- Reg.

I Wish to conduct exam for Advanced Learners Course – I : Adhoc and Sensor Networks [21UBC5AL] - for 27 students studying in Third year [2021-2024 batch]. Kindly permit us to conduct End Semester Exam on 24.11.2023[FN].

Thanking You,

Yours Truly,

Nallamuthu Gounder Mahalingam College

List of Advanced learners for the Academic year 2022-2023[ODD]

S.No	Reg.No	Name of the students	Class	Name of the Activity	Date of the Activity	Signature of the student
1	21-BC-011	GOKULNATH B	D3-A	21UBC5AL - ADHOC AND SENSOR NETWORKS	24.11.2023 - FN	B.Gokulnath
2	21-BC-019	MOHAMMED RIYAZ M	D3-A	21UBC5AL - ADHOC AND SENSOR NETWORKS	24.11.2023	Riyaz M
3	21-BC-024	PRAVEEN RAJ S	D3-A	21UBC5AL - ADHOC AND SENSOR NETWORKS	24.11.2023	Praveen
4	21-BC-030	SATHISHKUMAR S A	D3-A	21UBC5AL - ADHOC AND SENSOR NETWORKS	24.11.2023	Sathish
5	21-BC-031	SIVAKUMAR K	D3-A	21UBC5AL - ADHOC AND SENSOR NETWORKS	24.11.2023	Sivakumar
6	21-BC-035	UDHAYARAJ K	D3-A	21UBC5AL - ADHOC AND SENSOR NETWORKS	24.11.2023	K. Udhayaraj
7	21-BC-047	GNANASOUNDARI S	D3-A	21UBC5AL - ADHOC AND SENSOR NETWORKS	24.11.2023	G. Gnana Soundari
8	21-BC-052	MUBEENA PARVEEN J	D3-A	21UBC5AL - ADHOC AND SENSOR NETWORKS	24.11.2023	J. Mubeena Parveen
9	21-BC-053	MUBHASHIRA F	D3-A	21UBC5AL - ADHOC AND SENSOR NETWORKS	24.11.2023	Mubhashira
10	21-BC-054	POORNIMA V	D3-A	21UBC5AL - ADHOC AND SENSOR NETWORKS	24.11.2023	Poornima V
11	21-BC-056	SIVADURGA S	D3-A	21UBC5AL - ADHOC AND SENSOR NETWORKS	24.11.2023	S. Sivadurga
12	21-BC-058	SRIKAMATCHI S	D3-A	21UBC5AL - ADHOC AND SENSOR NETWORKS	24.11.2023	S. Srikamatchi
13	21-BC-062	ARUNKUMAR S	D3-B	21UBC5AL - ADHOC AND SENSOR NETWORKS	24.11.2023	Arunkumar
14	21-BC-067	DEEPAK BASKAR N	D3-B	21UBC5AL - ADHOC AND SENSOR NETWORKS	24.11.2023	Deepak
15	21-BC-070	GOKUL K	D3-B	21UBC5AL - ADHOC AND SENSOR NETWORKS	24.11.2023	Gokul
16	21-BC-082	PRASATH K	D3-B	21UBC5AL - ADHOC AND SENSOR NETWORKS	24.11.2023	Prasath
17	21-BC-083	PRATHAP K K	D3-B	21UBC5AL - ADHOC AND SENSOR NETWORKS	24.11.2023	K. Prathap
18	21-BC-093	VARATHARAJ E	D3-B	21UBC5AL - ADHOC AND SENSOR NETWORKS	24.11.2023	Varatharaj

19	21-BC-094	VETHURAM A	D3-B	21UBC5AL - ADHOC AND SENSOR NETWORKS	24.11.2023	Vethuran
20	21-BC-099	ARCHANAPRIYADHARS HINI B	D3-B	21UBC5AL - ADHOC AND SENSOR NETWORKS	24.11.2023	
21	21-BC-101	GAYATHRI T	D3-B	21UBC5AL - ADHOC AND SENSOR NETWORKS	24.11.2023	Gayathri
22	21-BC-106	KOWSALYA P	D3-B	21UBC5AL - ADHOC AND SENSOR NETWORKS	24.11.2023	Kowsalya
23	21-BC-108	MOHANAPRIYA S	D3-B	21UBC5AL - ADHOC AND SENSOR NETWORKS	24.11.2023	Mohana Priya
24	21-BC-112	PRAGATHEESWARI B	D3-B	21UBC5AL - ADHOC AND SENSOR NETWORKS	24.11.2023	Pragathi
25	21-BC-114	RAMYA S	D3-B	21UBC5AL - ADHOC AND SENSOR NETWORKS	24.11.2023	Ramya
26	21-BC-116	SIVAMALINI A	D3-B	21UBC5AL - ADHOC AND SENSOR NETWORKS	24.11.2023	Sivamala
27	21-BC-118	SUBHA K	D3-B	21UBC5AL - ADHOC AND SENSOR NETWORKS	24.11.2023	Subha

Attach the relevant documents for each activity (Geo tag Photos/Video /Report/Invitation/Agenda)

Signature of the Head

Dr. K. HARIDAS, M.C.A., M.Phil., Ph.D.,
Associate Prof. & Head,
Department of Computer Applications,
N.G.M. College (Autonomous), Pollachi - 642 001.

Signature of the Principal

Dr. R. MUTHUKUMARAN,
M.A., M.Phil., B.Ed., Ph.D.,
PRINCIPAL
N.G.M. College, Pollachi - 642 001
Coimbatore District

Programme Code:	BCA			Programme Title:	Bachelor of Computer Applications
Course Code:	21UBC5AL			Title	
Lecture Hrs./Week	5	Tutorial Hrs./Sem		Advanced Learner Course – I: Adhoc And Sensor Networks - Self Study	Batch: 2021-2022 Semester: V Credits: 04**

Course Objective

To study the protocols and the functionalities of ad hoc networks, understanding the various applications developed based on ad hoc networking, addressing issues and challenges created. To know about the sensor networks and addressing the challenges in establishing infrastructure for sensor networks and managing database.

Course Outcomes (CO)

Upon completion of this course students shall be able to

CO Number	CO Statement	Knowledge Level
CO1	Understand the Fundamental Concepts and applications of ad hoc and wireless sensor networks	K1
CO2	Demonstrate the MAC protocol issues of ad hoc networks	K2
CO3	Apply the concepts of network architecture and MAC layer protocol for WSN	K3
CO4	Analyze the routing protocols for ad hoc wireless networks with respect to TCP design issues	K4
CO5	Explain the WSN routing issues by considering QoS measurements	K5

Mapping

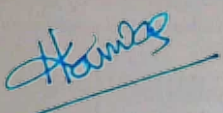
PO/ PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO												
CO1	H	H		H	H	H	H	H		H	H	H
CO2				M		M		H			M	M
CO3	H	H		H	H	H	H	M	H	H	H	H
CO4				M			M	H	M	H	H	H
CO5	M			M	H	H	M				M	M

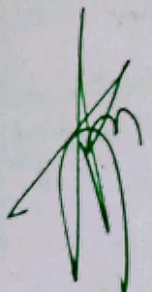
Units	Content	Hrs
Unit I	Introduction to adhoc & sensor networks: Key definitions of adhoc and sensor networks- unique constraints and challenges- advantages of ad-hoc/sensor network- driving applications- issues in adhoc wireless networks- issues in design of sensor network- sensor network architecture- data dissemination and gathering.	15
Unit II	Issues in designing MAC protocols for adhoc wireless networks- Design Goals of MAC protocol for Ad hoc Networks - Classification of MAC protocols - MAC protocols for sensor network- Contention Based Protocols - Reservation and Scheduling Mechanisms - Other Protocols.	15
Unit III	Routing protocols for Ad hoc wireless Networks- Design Issues and Classifications of unicast and multicast Routing Protocols - Proactive- Reactive and Hybrid routing protocol - Tree based and Mesh based multicast protocols- Energy Efficient and QoS guaranteed multicast protocols.	15
Unit IV	Security in wireless Ad hoc wireless Networks-Network security requirements- challenges in security provisioning-Network security attacks- Layer wise attacks in wireless sensor networks: jamming- tampering- black hole attack- flooding attack- Secure routing in Ad hoc wireless Networks.	15
Unit V	Quality of service in Ad hoc wireless Networks: Introduction-challenges in providing QoS in Ad hoc wireless Networks- Classification of QoS solutions- MAC layer solutions-network layer solutions.	15
Total Contact Hrs		75

*The topics given in **Italics** are noted as Self-Study topics.

Pedagogy and Assessment Methods:

Seminar, Power Point Presentation, Chalk and talk, Quiz, Assignments, Group Task.


Dr. K. HARIDAS, M.C.A., M.Phil., Ph.D.,
 Associate Prof. & Head,
 Department of Computer Applications,
 N.G.M. College (Autonomous), Pollachi - 642 001.


Dr. R. MUTHUKUMARAN,
 M.A., M.Phil., B.Ed., Ph.D.,
 PRINCIPAL
 N.G.M. College, Pollachi - 642 001,
 Coimbatore District