

GEOSPATIAL APPLICATIONS FOR NUTRITION SURVEY & HEALTH INTERNSHIP REPORT

 $8^{th}\; JANUARY\; 2024-12^{th}\; JANUARY\; 2024\; \&\; 20^{th}\; JANUARY-27^{th}\; JANUARY\; 2024$

REPORT - SUBMITTED BY

I M.Sc NUTRITION & DIETETICS (2023 to 2025)

SUBMITTED TO:

DEPARTMENT OF NUTRITION AND DIETETICS

JAMAL MOHAMED COLLEGE

TRICHY – 620 020.

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ACKNOWLEDGEMENT

We thank The Almighty for his blessings to do Geospatial Applications for Nutrition survey and Health Internship.

We wish to express our deep sense of gratitude to JAMAL MOHAMED COLLEGE, TIRUCHIRAPPALI (AFFILIATED TO BHARATHIDASAN UNIVERSITY) for having provided this opportunity.

We extend our Gratitude to our Principal **Dr.S. ISMAIL MOHIDEEN M.Sc., M.Phil, Ph. D** Sir who provided us this opportunity and permitted us to do this Internship.

We wish to thank our Head of the Department - Nutrition and Dietetics **Dr. M. GHOUSE BASHA M.Sc., M.Phil., Ph.D** Sir who gave us the opportunity to do this Internship.

We whole heartedly thank our Professors, Dr. V. KAVITHA M.Sc., M.Phil., Ph.D., NET Madam & Dr. J. HARINE SARGUNAM M.Sc., M.Phil., NET., Ph.D. Madam for encouraging us to attend this 1 week Internship.

We sincerely thank Dr. H. SYED JAHANGIR M.Sc., M.Phil., Ph.D Sir, Associate Professor & Head, Department of Botany, Jamal Mohamed College, Trichy for allowing us to do our Internship.

We express our thanks to, Dr. BALAGURU BALAKRISHNAN M.Sc., Ph.D., (NET) Sir, Assistant Professor, Department of Botany, Jamal Mohamed College, Trichy who taught, explained and guided us throughout the Internship patiently.

We thank our fellow students to extend their fullest co-operation during the Internship.

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DATE: 08.01.2024 to 12.01.2024 & 20.01.2024 to 27.01.2024

PLACE: JAMAL MOHAMED COLLEGE – CENTRE OF BIODIVERSITY INFORMATICS (LAB)

Geospatial Applications for Nutrition survey and Health - Internship was successfully organized by the Department of Botany, Jamal Mohamed College, Trichy on 08.01.2024 to 12.01.2024 & 20.01.2024 to 27.01.2024. 52 students from 1st MSC N&D- A & 1st MSC N&D- B attended for 1 week in 2 batches. **Dr. BALAGURU** Sir taught us on Geographic Information System (GIS), Global Positioning System (GPS), Remote Sensing (RS). He explained us how these components helps in understanding and creating Geospatial surveys. Sir also taught as different terms like Restricted Maps, Aerial Photograph, Ground data collection, GIS model, Server, Data base, Distortion and it's types like Conformality, Distance, Area, Datum, Coordinate system etc. We also learned about 2 types of data that is vector and raster data, Pictorial alignment, Pixel etc

Though it was completely new to us, sir explained us clearly to the point. He showed various examples and maps that enable us to understand deeply. We gained knowledge about resolution, orbits, False colour, Vector formats like line features, Point features, Polygon which helps in entering our collected datas in Map. Sir also taught us on how to analyze Map, ways to extract maps, entering data in maps etc. He demonstrated the data collection & entering process using Open street map (to extract data - free, open source), Google Earth, Quantum GIS Softwares. Sir explained us how various organizations collect data and incorporate them in Maps. He also gave various ideas that connect nutrition & Food service management to Geospatial survey. Those ideas help us to envision our Project ideas more precisely. He also cleared our doubts regarding surveys . He told that his Phd Project was based on Geospatial survey. He encouraged us to take survey for our project. Sir also allowed us to use systems individually (as the lab is well equipped with Computers & Projectors, there were around 30 systems in the lab) and we have extracted & entered datas on Maps using QGIS Software. The 1 week of Geospatial Internship was very useful and enlightening. We learnt both theoretically and practically in this Internship. We were also provided

with certificates at the end of the Internship. We heartfelty thank our Magnanimous management for having provided this opportunity. We also thank our Department of Nutrition & Dietetics for arranging this wonderful workshop for us. We thank the Department of Botany for having provided this workshop to us. At last we thank Dr. Balaguru Sir for teaching about this new concepts and clearing our doubts patiently. Overall it was Informative sessions for all of us.











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Internship Certificate

This is to certify that Ms	AFRIN BANU. M (23PND001) I MSC.,

Department of Nutrition and Dietetics, Jamal Mohamed College (Autonomous), Tiruchirappalli has participated in an Internship Programme on "Geospatial Applications for Nutrition survey and Health" organised by PG and Research Department of Botany, Jamal Mohamed college (Autonomous), Tiruchirappalli from 8th to 12th Janauary 2024.

Dr. H. SYED JAHANGIR Associate Professor and Head, Department of Botany

Dr. S. ISMAIL MOHIDEEN



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This is to certify that Ms. AFFRAH SHANU. G (23PND002) I MSC.,

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This is to certify that Ms. AMBRIN FARKHA. M. (23PND003) I MSC.,

Department of Nutrition and Dietetics, Jamal Mohamed College (Autonomous), Tiruchirappalli has participated in an Internship Programme on "Geospatial Applications for Nutrition survey and Health" organised by PG and Research Department of Botany, Jamal Mohamed college (Autonomous), Tiruchirappalli from 8th to 12th Janauary 2024.

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This is to certify that Ms. AMINA AFREEN .T (23PND004) I MSC.,

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This is to certify that Ms. ANISHA BEGAM .A (23PND005) I MSC.,

Department of Nutrition and Dietetics, Jamal Mohamed College (Autonomous), Tiruchirappalli has participated in an Internship Programme on "Geospatial Applications for Nutrition survey and Health" organised by PG and Research Department of Botany, Jamal Mohamed college (Autonomous), Tiruchirappalli from 8th to 12th Janauary 2024.

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This is to certify that Ms.	ANUSHYA .R (23PND006) I MSC.,
Department of Nutrition and	Dietetics, Jamal Mohamed College (Autonomous), Tiruchirappalli has participated
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This is to certify that Ms.	ASHA .P (23PND007) I MSC.,
Department of Nutrition and Die	etetics, Jamal Mohamed College (Autonomous), Tiruchirappalli has participated
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This is to certify that Ms. ASHIKA MARIYAM .M (23PND008) I MSC.,

Department of Nutrition and Dietetics, Jamal Mohamed College (Autonomous), Tiruchirappalli has participated in an Internship Programme on "Geospatial Applications for Nutrition survey and Health" organised by PG and Research Department of Botany, Jamal Mohamed college (Autonomous), Tiruchirappalli from 8th to 12th Janauary 2024.

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This is to certify that Ms	BHAVANI .R (23PND010) I MSC.,	
Department of Nutrition and	Dietetics, Jamal Mohamed College (Autonomous)	Tiruchirannalli has participate

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This is to certify that Ms	DHARANIDEVI .S (23PND011) I MSC.,	
Demontrary CN	,,	

Department of Nutrition and Dietetics, Jamal Mohamed College (Autonomous), Tiruchirappalli has participated in an Internship Programme on "Geospatial Applications for Nutrition survey and Health" organised by PG and Research Department of Botany, Jamal Mohamed college (Autonomous), Tiruchirappalli from 8th to 12th Janauary 2024.

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I fils is to certify that Ms DHARSHINI .R (23PND012) I MSC.,
Department of Nutrition and Dietetics, Jamal Mohamed College (Autonomous), Tiruchirappalli has participated
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PG and Research Department of Botany, Jamal Mohamed college (Autonomous), Tiruchirappalli
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This is to certify that Ms. DHIVYA DHARSHINI .S (23PND013) I MSC.,

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This is to certify that Ms	FADEELA .A (23PND014) I MSC.,
Department of Nutrition and Diete	etics, Jamal Mohamed College (Autonomous), Tiruchirana W.L.
and another manip i rogi annue on "(seospatial Applications for Nutrition survey and Health?
PG and Research Department o	f Botany, Jamal Mohamed college (Autonomous), Tiruchirappalli
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This is to certify that Ms. FASEEHA BANU .S (23PND015) I MSC.,

Department of Nutrition and Dietetics, Jamal Mohamed College (Autonomous), Tiruchirappalli has participated in an Internship Programme on "Geospatial Applications for Nutrition survey and Health" organised by PG and Research Department of Botany, Jamal Mohamed college (Autonomous), Tiruchirappalli from 8th to 12th Janauary 2024.

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This is to certify that Ms. FOUSIYA SABANA .R (23PND016) I MSC.,

Department of Nutrition and Dietetics, Jamal Mohamed College (Autonomous), Tiruchirappalli has participated in an Internship Programme on "Geospatial Applications for Nutrition survey and Health" organised by PG and Research Department of Botany, Jamal Mohamed college (Autonomous), Tiruchirappalli from 8th to 12th Janauary 2024.

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This is to certify that Ms	GAYATHRI .K (23PND017) I MSC.,
Department of Nutrition an	d Dietetics, Jamal Mohamed College (Autonomous), Tiruchirappalli has participated

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This is to certify that Ms. ____ IRFANA FATHIMA .S(23PND019) I MSC.,

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This is to certify that Ms	JANANI .P (23PND020) I MSC.,
Department of Nutrition and I	Dietetics, Jamal Mohamed College (Autonomous), Tiruchirappalli has participated
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This is to certify that Ms. ___ JANNATHUL FIRTHOUS .S (23PND021) I MSC.,

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This is to certify that Ms	JAYANTHANA .M (23PND022) I MSC.,	
I his is to certify that Mis.	57 17 11 11 ATA 111 (251 140022) 1 1415C.,	

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This is to certify that Ms.	KANMANI .K.M (23PND023) I MSC.,	
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This is to certify that Ms	KAUSHIKAA .K (23PND024) I MSC.,
Department of Nutrition as	nd Dietetics, Jamal Mohamed College (Autonomous), Tiruchirappalli has participated

in an Internship Programme on "Geospatial Applications for Nutrition survey and Health" organised by PG and Research Department of Botany, Jamal Mohamed college (Autonomous), Tiruchirappalli from 8th to 12th Janauary 2024.

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This is to certify that Ms	KAVIYA .S (23PND025) I MSC.,	

Department of Nutrition and Dietetics, Jamal Mohamed College (Autonomous), Tiruchirappalli has participated in an Internship Programme on "Geospatial Applications for Nutrition survey and Health" organised by PG and Research Department of Botany, Jamal Mohamed college (Autonomous), Tiruchirappalli from 8th to 12th Janauary 2024.

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This is to certify that Ms. KEERTHANA LAKSHMI .K.R (23PND026) I MSC.,

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This is to certify that Ms	KIRUTHIGA .G (23PND027) I MSC.,
Department of Nutrition and	d Dietetics, Jamal Mohamed College (Autonomous), Tiruchirappalli has participated
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This is to certify that Ms	LAILA BANU .J (23PND028) I MSC.,
Department of Nutrition and	Dietetics, Jamal Mohamed College (Autonomous), Tiruchirappalli has participated
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Dr. S. ISMAIL MOHIDEEN