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NAAC 3<sup>rd</sup> Cycle

Criterion III Metric 3.7.1

# A. Y. 2017-18 - Collaborative Activities

The following are the list of Collaborative Activities done at the Institution for the academic year 2017-18:

S. No.	Details	Total
1	Research Collaborations	23
2 Student Internship		165
Total		188





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# A. Y. 2017-18 - Collaborative Activities

The following are the list of Collaborative Activities done at the Institutions for the academic year 2017-18:

S No	Details			Total	
1	Research Collaborations	Journal Collaborations	19	23	
		Fellowship	1		
		Proceeding Collaborations	2		
		Collaboration of Books	1		
2	Student Internship		165		
Total					





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# 1. Research - Journal Collaborations - Academic Year (2017-18)

J Mater Sci: Mater Electron DOI 10.1007/s10854-017-6718-8



# Experimental and theoretical perspectives on 2-amino 5-bromopyridinium salicylate: a third order nonlinear optical material

D. Prabha1 · R. Karunathan2 · V. Sathvanaravanamoorthi1

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Abstract Organic charge-transfer complex of 2-amino 5-bromopyridinium salicylate (2A5BPSA) single crystals were grown by slow evaporation solution growth technique using methanol as a solvent. The phases and functional groups of 2A5BPSA have been identified and confirmed through powder X-ray diffraction and Fourier transform infrared. The optical transmittance window and the lower cutoff wavelength of the 2A5BPSA have been identified by UV-Vis-NIR studies. Dielectric studies were carried out for the grown crystals at various temperatures from the frequency ranging from 50 Hz to 5 MHz. Photoconductivity and microhardness studies were also performed for the 2A5BPSA crystal sample. The nonlinear refractive index, nonlinear absorption coefficient have been measured through the Z-scan technique. In addition to that, the quantum chemical calculations on 2A5BPSA have been performed by density functional theory calculations using Hartee-Fock method with HF/6-311++G basis set.

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Published online: 19 March 2017

### 1 Introduction

A fascinating new field of research termed "nonlinear" optics was introduced to the scientific and engineering community after the invention of laser. Nonlinear optics has arisen as one of the most attractive fields of current research in view of its vital applications in areas of optical switching, optical data storage for the developing technologies in telecommunications, frequency mixing, optical parametric oscillation, optical bi-stability, optical logic gates, laser radiation protection, optical image processing, under water communication, biomedical and signal processing analysis optical modulation, second-harmonic generation (SHG), third-harmonic generation (THG) optical signal processing, optical switching, optical data storage devices, frequency shifting, optical modulation, optical switching, optical logic, and optical memory for the emerging technologies in areas such as telecommunications, signal processing and optical interconnections. It is also used in phase conjugation and image reconstruction etc [1-3]. It has been understood that the molecular nonlinearity can be enhanced by large delocalized π-electron systems with strong donor and acceptor groups. The  $\pi$  acceptor charge-transfer (CT) reactions have been employed positively in pharmaceutical investigation. Therefore CT complexes encouraged widespread research on these kinds of complexes [4, 5]. Moreover, the field of non-linear optical materials and electrical conductivities finds the application of such complexes. For these extensive applications, more works on charge-transfer complexes have been carried out. The CT complexes of organic materials are considered for the reason that the special type of interaction is accompanied by transfer of an electron from the donor to the acceptor. Similarly, the protonation of the donor from the acidic acceptors are basis for the construction of ion pair materials. Pyridine and its







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### Analysis of Energy Efficient Clustering Algorithms for Wireless Sensor Networks

T.S.Prabhu¹ Dr.V.Jaiganesh² ¹Research Scholar ²Professor (Post Graduate & Research) <sup>2</sup>Department of Computer Science 1,2Dr.N.G.P. Arts and Science College, India

Abstract- Wireless sensor network (WSN) is a group of Abstract—Wireless sensor network (WSN) is a group of spatially distributed autonomous sensors, connected to a Wireless Sensor Node, which gathers data and commonly passes it through the network to a central location. The features of WSNs are quick expansion, self-organization as well as self-adaptation to the environment. It plays an essential role in our daily lives also it meets the requirements of numerous application areas like industrial, cultural environmental. The approximation of the programments of the programments of the programments of the programments of the programments. cultural, environmental. The energy efficiency of nodes and life time of network is becoming a general requirement for wireless sensor networks. Different clustering approaches are used to reducing energy dissipation in the network and optimize of sensor nodes for achieve successful communications among the nodes. This paper reviewed different energy efficient algorithms of clustering in WSNs.

Key words: Wireless Sensor Network, Distributed Clustering Algorithm, Hybrid Clustering Algorithm, LEACH, ULEACH, EEHMC

### I. INTRODUCTION

Wireless sensor networks are collection of sensor nodes organized into a cooperative network. The nodes are communicated with each other by the wireless medium. From hundreds to thousands of nodes can be deployed in a network to sense the environment. All nodes work mutually and transmit data to base station [1]. Following figure illustrates the basic structure of WSN,



Fig. 1: Wireless Sensor Network

In many applications, sensor have to be grouped together to function automatically in the wireless sensor network for sustain high scalability as well as improved data aggregation. The sensor nodes are regularly grouped into individual, disjoint, non-overlapping subsets known as clusters [2]. Clustering is applied in WSNs to grant whole network scalability, efficient utilize of constrained resources which offers network topology stability with energy saving characteristics. Each cluster has a cluster head and cluster members in cluster based architecture. In each cluster, cluster members are exchange the data with their respective cluster head and base station will collect data from cluster heads [3]. In this paper, a survey on clustering techniques and algorithms of wireless sensor networks are discussed.

### II. CLUSTERING SYSTEM

Clustering system is one of the best approaches applied to save energy in WSN. Clustering is the process of arrange sensor nodes into various groups called clusters. In order to accomplish network scalability, the grouping of sensor nodes into clusters has been broadly followed by the research community. At each cluster, sensor nodes are plays different roles like cluster head, cluster member node. A cluster head is a group manager in every cluster that gathers sensed data from member nodes and transmits the aggregated data to the next clustering head and base station collects the finalized data from all cluster head [4]. The below figure demonstrates the clustering process in WSN,

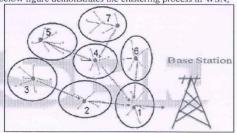


Fig. 2: Clustering Process in WSN
The role of cluster member node is to sense data from the environment they deployed as well as send data to cluster head. Clustering method have to met the following requirements as [5],

- Clustering is entirely distributed and every node alone makes its decisions based on local information.
- Clustering terminates within a fixed number of iteration based on network diameter
- At every cluster, each node is either a cluster head or a cluster member that belongs to exactly one cluster.

  Clustering should be effective in terms of processing
- difficulty as well as message exchange.

  Cluster heads are very well circulated over the sensor

### III. CLUSTERING ALGORITHMS

This section presents and analyzes various clustering algorithms based on energy efficiency for WSNs. Clustering algorithms are developed and analyzed by researchers for building scalable, robust and efficient applications in order to ensure efficient network operations. It can be classified as follows,

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# AN ANALYSIS OF CREDITWORTHINESS TOWARDS BORROWING AND

## COMMITMENT LEVEL OF MICRO & SMALL ENTERPRISES IN RURAL AREAS

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Dr.R.Amuthan <sup>2</sup>	<sup>2</sup> Principal, Excel Business School, Pallakapalayam 637 303, Komarapalayam, Sankari Tk, Tamil Nadu, India	

### = ABSTRACT =

The expansion and development of the enterprises aequents on an utilize credit facilities provided by the existing mechanism. The enterprises engaged in business can utilize credit facilities provided by  $\textbf{\textit{N}} he \ expansion \ and \ development \ of \ the \ enterprises \ depends \ on \ adaption \ of \ technology \ up-gradation \ in$ banks for the growth of business. Despite the commercial banking activities exist in all the parts of our country, the Micro and Small Enterprises located in rural areas are still facing problems for inadequate supply of credit to improve their businesses. Banks provide credit to these enterprises after analyzing their creditworthiness as the main part of their lending process in spite of credit risk which is often faced by rural banks. The five components of Creditworthiness are the determinants for sanctioning credit and also discriminating elements according to situation that prevails in the concerned market. The credit system and procedure used by rural banks is to measure the Creditworthiness of micro & small enterprises. The system helps the bankers to weigh the characteristics of the borrowers and conditions of the loan, attempting to estimate the chance of default. The objectives of the study are to measure the commitment level and the constituents of creditworthiness through statistical tools. It is observed after analyzing the creditworthiness that Cognizance is required more to know about the banking procedures in availing credit. The enterprises which do volume of business normally have capacity to repay credit when we compare to other enterprises. No enterprise bothers about their credit-score which is most important to provide credit facilities by rural banks. The capital is maintained according to nature of business and the age of enterprise that exist in the market. In connection with collateral no enterprise is ready to give or pledge the collateral to the bank while borrowing credit for their development of business

KEYWORDS: Creditworthiness, Enterprises, Borrowing, Commitment, Rural, Credit

### INTRODUCTION

The entrepreneurs make to grow their business which leads to overall growth of the economy to the extent possible. Further expansion and development of the enterprises depends on adaption of technology up-gradation in the existing mechanism. The enlargement by the way of modifying the current production system or replacing old system will definitely require an additional amount of investment. The enterprises engaged in business can utilize credit facilities provided by banks for the growth of business. Banks keep on lending money to all the sectors of industry and especially to those engaged in businesses in the form of Micro and Small enterprises. The major revenues made by banks are through the interest generated by lending and the charges or fee they charge for providing banking facilities to

the business enterprises. Despite the commercial banking activities exist in all the parts of our country, the Micro and Small Enterprises located in rural areas are still facing problems for inadequate supply of credit to improve their businesses. Banks provide credit to these enterprises after analyzing their creditworthiness as the main part of their lending process in spite of credit risk which is often faced by rural banks.

### MICRO & SMALL ENTERPRISES

The Government of India has been making intensive efforts for the promotion and development of micro & small enterprises which enabled to grow higher than the overall the growth of industrial sector. To facilitate the development of MSEs and increase their effectiveness, the government has enacted the Micro, Small and Medium Enterprises Development (MSMED) Act, 2006. One of the major policies



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# Investment Pattern of Middle Class Families income - A study with Special reference to Coimbatore City

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Ms. R. Murugalakshmi,

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Abstract: Investment is the employment of funds on assets with the aim of earning income or capital appreciation. Investment is the most important things today. People are earning more, but they do not know where, when and how to invest it. A proper understanding of money, its value, the available avenues for investment, various financial institutions, the rate of return/risk etc., are essential to successfully manage one's finance for achieving life's goal. India is the best abode of investment opportunities both at micro and macro levels suitable to both urban and rural areas. The various efforts have been made by the Government and private individuals as well as institutions to encourage investment activities in identified areas in the interest of generation of output, income and employment opportunities. It is always noted point that the investment programme should be able to generate income as well as employment opportunities in the Indian Economy so as to eradicate poverty and hunger. In recent years one of the best efforts of the Government is initiation of Self-Help Group Programmed under rural development and poverty eradication programmes. Since woman is the equal partner and centre of development, she needs basic attention on her freedom and empowerment, socially, economically and politically. Effective Investment and mobilization of resources can be done in more fruitful way through the development of women-resource. For development of women-resource, there is need for globalfriendly training to the women at large scale, particularly in rural areas.

Key Words: Investment, Indian Economy, Investment Opportunities.

### Statement of Problem

In today's scenario investments have become a basic necessity for everyone. In India there is a rapid growth in investment. More number of investors is investing their funds in different types of investment opportunities. Investing wisely is a function if investors' specific needs and goals. Each investor has different objectives that need to be met depending on age, income and attitude towards risk. Investors have to work out with their investment profile to determine which investments are right for them and should consider important factors such as personal status, plans and constraints. Now a day the middle class segments investors select almost all kinds of investment avenues for their investment. They all improve the economic development of a country. Based on this conceptual understanding this study aims to analyse the investment pattern of middle class income families residing in Coimbatore city, Tamil Nadu.

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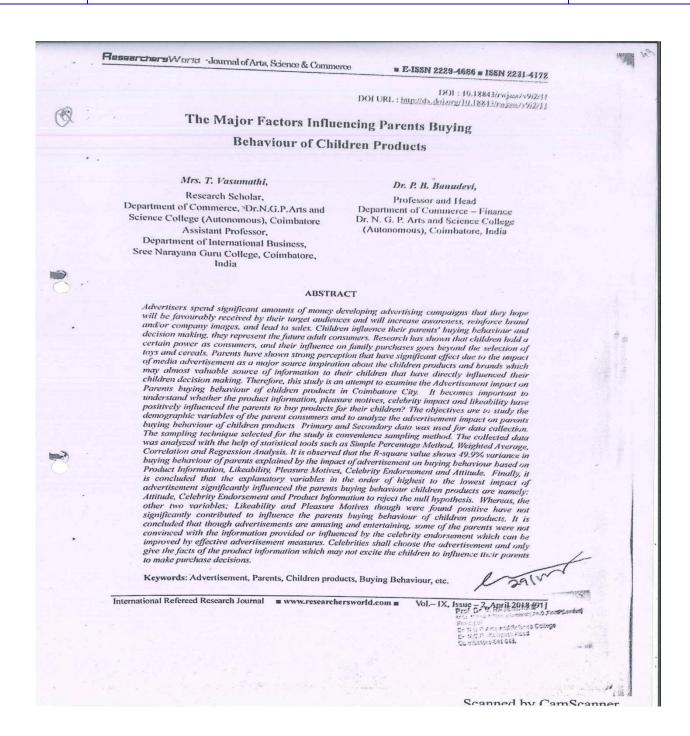
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INTERNATIONAL CONFERENCE ON "EMERGING TRENDS AND INNOVATIVE STRATEGIES IN SOCIAL MEDIA MARKETING – ISSUES AND CHALLENGES"



# CONSUMERS BUYING BEHAVIOUR TOWARDS ORGANIC FOODS IN COIMBATORE REGION

Dr.P.B.Banudevi, Professor and Head, Department of Commerce Finance Dr.N.G.P. Arts and Science College (Autonomous) Coimbatore Mr.G.Shiva Assistant Professor Department of Commerce Finance Dr.SNS Rajalakshmi college of Arts and Science (Autonomous) Coimbatore

### ARSTRACT

An awareness and demand of organic products are increasing in India. Organic foods are unprocessed food without artificial ingredients, preservatives or irradiation. The aim of this research paper is to know about the consumer attitude and buying behaviour towards organic food products. The consumer intense to purchase organic food is influenced by various factors such as purchase intention, acceptability, affordability, health consciousness, awareness and attitude. In this tudy 125 consumers are used in the survey for inding the buying behaviour of organic foods in Vellore city during the year 2017. Data is collected from various organic shops in coimbatore city. Keywords: Organic Food Products, Consumers,

Purchase, Attitude, Buying.

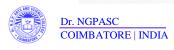
### 1. INTRODUCTION

Magnusson et al. (2003) found from research is human health, environmental friendly are predictors of purchase frequency. Torjusen et al. (2001) survey is organic food purchasers were more concerned with environmental, health issues. Magnusson et al. (2001) survey was conducted through mail, most respondents positive attitudes towards organic food products are good taste and more expensive, healthier than conventional products. Loureiro et al. (2001) survey is higher lood safety, environmental concerns are increase the consumers' willingness to purchase the organic products. Tregear et al. (1994) survey is conducted telephone. and mail environmental friendly and better tasting than conventional food products. Jolly (1991)mail survey was conducted that found their research is food safety, freshness, health benefits, nutritional value, environmental effect, flavour appearance of product are the factors considered choosing organic foods. Ragavan&Mageh (2013) found their research is that consumer perception towards organic products, product safety, environment friendliness and availability of product information are the major factors for purchase intention towards organic products.

Zeinabseyedsaleki et.al (2012) found their study is that consumers buying behaviour is influenced by organic knowledge, quality, price consciousness, subjective norms and familiarity on attitude. 150 consumers are responded in Iran. The survey is conducted through questionnaire with simple random method. All the factors are positive and significant except the subjective norms influence on organic buying behaviours. Ihsan effendi et.al (2015) the aim of the research is that taken from 270 respondents at several organic markets. Organic food knowledge, health knowledge and subjective norm variables are affected the consumer behaviour. Shashikiran & Madhavaiah (2014) found their research is conducted in Bangalore city from 150 consumers. 53% of the consumers were aware about organic products in the market. The study is focused on willingness to pay premium for organic food products. Consumers are ready to pay 20 - 30 % more for organic food products for belief on the safety and health aspect of the product. Zhou Lili& Chen Tong (2007) found their research is to gain knowledge and consumer attitudes towards organic food in Urumqi. The data was collected from 720 consumers by face - to - face survey. 44.9% of consumers had never heard of organic food. Consumers mostly considered the organic products are healthy, good quality and taste. Most of them are not very familiar with the supply of organic food products. So marketers to increase the awareness, advertise and knowledge of products. Some groups willing to pay higher prices for these food. So some marketing strategies should be targeted towards such groups. D. Anand& V.S. Palaniammal 37 Int. Res. J. Mgmt. Soc. Sci. Vol. 1(4), MarijaRadman (2005) the aim of the research is to gain knowledge about consumer attitudes toward organic products in Croatia. The data is collected by face - to -face from 179 consumers. Consumers are not familiar with the supply of products. Some consumers have more positive attitudes towards organic products. Marketing strategies for organic products should be targeted towards such groups. Sakthirama&Venkatram

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Casitiess Builts ami Financial Inclusion - Challenges and Benefils 181

30. A Study on Customer's Awareness on Green Banking Initiatives in Selected Private Sector Banka with Special reference to Colmbatore City

DR. P.B BANUDEVI

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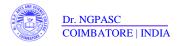
### ISTRACT:

Green banking means promoting environment-friendly practices and reducing your carbon footprint from your banking activities. There has not been much initiative in this regard by the banks and other financial institutions in India though they play an active role in India's emerging economy, so it is suggested to initiate to promote green banking in India. The concept of green banking helps to create a cleaner and greener future as Green Banking has a direct impact on the environment. This paper has been made to study the level of consumer satisfaction and awareness regarding "Green banking services "initiative taken by various Private sector banks in India, Coimbatore, The study aims to identify the opinion and awareness of bank employees and customers as regards to green banking concept in private sector banks. It is necessary to identify various initiatives taken by the bank on the concept of green banking in order influence ensurer and make them user friendly.

Key words: Green Banking, Environment, Customer satisfaction

### 1.INTRODUCTION

The financial institutions influence the economic growth and development of the country both in terms of Quality and Quantity, thereby adopting various strategies for economic growth. As environmental issues gain greater attention, pressure is being placed on all industries, including financial institutions to implement Green Initiatives. Banking sector plays a crucial and decisive role in promoting environmentally sustainable and socially responsible investments as it





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### IMPACT OF CASHLESS ECONOMY ON COMMON MAN IN INDIA

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### Abstract

The low literacy rates in rural India, along with the lack of infrastructure like internet access and power make things extremely difficult for people to adopt e-transaction route. The financial technology industry would be unwise to ignore the rise of mobile transaction services, person-to-person networks and the whole range of digital disruption in the payments arena from the likes of Bit coin, Apple Pay and PayPal that undoubtedly is putting pressure on cash. The present paper meets an attempt to know the awareness about smart phone and the use of smart phone in rural India. To overcome from the problem of cashless services providing in rural India.

Key words: Cashless, Smart Phone, infrastructure, internet & networks etc.

### Introduction

Cash is like water a basic necessity without which survival is a challenge. Nevertheless, cash use doesn't seem to be waning all that much, with around 85% of global payments still made using cash. One of the main reasons is that there is nothing to truly compete with the flexibility of notes and coins. Of course, the digital era is something to embrace, and new methods of payments will continue to be introduced. But Indians need to recognize the risks and benefits of different payment instruments, the risks associated with electronic payment instruments are far more diverse and severe. Recently lakhs of debit card data were stolen by hackers; the ability of Indian financial institutions to protect the electronic currency came into question also an important reason why people favour cash. In a courageous move to combat black money and counterfeit currency, Narendra Modi's government scrapped currency notes of INR 500 and INR 1000 denominations, which is seen as an unprecedented measure, though a giant leap towards curbing corruption and forged currency. The declaration created confusion across the spectrum, as these high-value notes from around 86% of total legal tender. However, the whole isometrics of moving from cash-driven economy to cashless economy has somehow been assorted with demonetisation that was aimed to extract liquidity from the system to unearth black money. Prime Minister Narendra Modi acknowledged the fact in his monthly radio programme, 'Mann Ki Baat' on Sunday that making the transition to cashless economy is challenging, and hence has urged the public to move to 'lesscash' society. A report by Boston Consulting Group (BCG) and Google India revealed that last year around 75 per cent of transactions in India were cash-based, while in developed nations such as the US, Japan, France, Germany etc. it was around 20- 25 per cent. The depletion in cash due to demonetisation has pushed digital and etransactions to the forefront; e-banking, e-wallets, and other transaction apps becoming prevalent.

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# **Extracting Textual Information from Google Using Wrapper** Class

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Abstract: In general, the web text documents are often structured, un-structured, or semi-structured format that is promptly growing everyday with massive amounts of data. The users provided with many tools for searching relevant information. Some of the searches include, Keyword searching, topic and subject browsing can help users to find relevant information quickly. In addition, Index search mechanisms allow the user to retrieve a set of relevant documents. Occasionally these search mechanisms are not sufficient. With the rapid development of Internet, amount of data available on the web regularly increased, which makes it difficult for humans to distinguish relevant information. A wrapper class is proposed to extract the relevant text information and focus on finding useful facts of knowledge from unstructured web documents using Google. Techniques from information retrieval (IR), information extraction (IE), and pattern recognition are explored.

Keywords: Information Extraction, Retrieval, Semantic Web, Web Search Engine

### 1. Introduction

Web mining is the use of data mining techniques to automatically discover and extract information from Web locuments and services. Web content mining is the process of mining useful information from the contents of Web pages and Web documents, which are mostly text, images and audio / video files. Techniques used in this discipline have been heavily drawn from natural language processing (NLP) and information retrieval. Web structure mining is the process of analyzing the nodes and connection structure of a website through the use of graph theory. There are two things that can be obtained from this: the structure of a website in terms of how it is connected to other sites and the document structure of the website itself, as to how each page is connected. Web usage mining is the process of extracting patterns and information from server logs to gain insight on user activity including where the users are from, how many clicked what item on the site and the types of activities being done on the

At present, search engines are the primary gateways of information access on the Web. Today search engines are

becoming necessity of most of the people in day to day life for navigation on internet or for finding anything. Search engine answer millions of queries every day. Whatever comes in our mind just enter the keyword or combination of keywords to trigger the search and get relevant result in seconds without knowing the technology behind it. The search keyword is search engine it returns 36 million results. In addition with this, the engine returned some sponsored results across the side of the page, as well as some spelling suggestion in 0.36 seconds. And for popular queries the engine is even faster. To engineer a search engine is a challenging task. Web crawler is an essential part of search engine. A web crawler is a program that, given one or more seed URLs, downloads the web pages associated with these URLs, extracts any hyperlinks contained in them, and recursively continues to download the web pages identified by these hyperlinks. Web crawlers are an important component of web search engines, where they are used to collect the corpus of web pages indexed by the search engine. Moreover, they are used in many other applications that process large numbers of web pages, such as web data mining, comparison shopping engines, and so on.





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## A Graph Based Similarity Measure (GBSM) for Finding the Semantic Relation between the Words in Microblogs

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#### Abstract-

This paper introduce a new graphics model for micro blogs to understand the mostly inference topics. The twitter deals with more than hundred billions of tweets per day, so it is not an easy task to find the recurrent topics. Twitter are the one of the leading social networking site where the people can share their arousing and opinion. The tweets are very petite text, noisy and unstructured. Tweets are constantly screening up with rich user-generated[1]. The constructs the semantic relationships to each other and also provides a way to connect the semantically related and co-occurred word. The proposed method Graph Based Similarity Measure (GBSM) define a topic model to avoid the sparseness of short text and noisy. This paper examines the problem of overlapping in nodes and edges of the Graph-Based Topic Model(HGTM).

Keywords: graph, Short text, Similarity Measure.

### INTRODUCTION

Twitter is the most significant social networking service that spreads the information's worldwide. Twitter to be a rich and vast resource for data on the web. The content of the twitter should be well recognized because the people are using this as a platform to expose their reaction at instantaneous occasion. The text contents in tweets are diverse in nature, so it is necessary to predict the information which is frequently tagged. Most of the sentiment analysis is conducted on tweets with traditional algorithms. There are three key reasons to propose a new model :(i) the severe sparsity problem, (ii) models are designed for flat texts without structure,(iii)wide range of information conflicts with the assumption. The weakly-supervised information provided by s can build direct semantic relations between tweets so that the words in tweets have more complex topical relationships than in normal text.

### RELATED WORKS

### Notations and Definitions

A graph is an undirected graph, denoted as G = (V, E), where nodes V are s from the dictionary fhgh=1:H and edges E = f(h, h')g are obtained from co-occurrence relations between s in the explicit relationship. The edge  $e_{hh'}$  is weighted based on the association weight between h and h'.

### Removing of non-english character

Algorithm1:NaïveBayesclassifier (Landid.py)

Langid/train/Nbtrain.py

Shutil.rmtree(outdir)

Except NameError:

1 455

Except OSError

//clean up non-english characters.

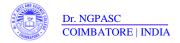
defsetup\_pass\_tokenizer, b\_dirs,sample\_count, sample\_size, term\_freq, line\_level);

### LDA(Latent Dirichlet Allocation) Algorithm

LDA represents documents as mixtures of topics that create words with certain probabilities. The documents are provided in such a way that,

- (i) Find the number of words N in the document,
- (ii) Find the fixed set of topics K,

11472





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# ASIAN JOURNAL OF PHARMACEUTICAL AND CLINICAL RESEARCH

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BIOPROSPECTING OF MARINE SPONGE (CALLYSPONGIA DIFFUSA) FOR ANTIBACTERIAL COMPOUND

### BINDU D1, VINOTH KUMAR T1, GEETHARAMANI D2\*

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### ABSTRACT

Objective: Marine sponges are a rich source of new antimicrobial drugs. The present study was aimed to evaluate the antibacterial activity of the marine sponge (Callyspongia diffusa) against human pathogenic bacteria and to analyze the presence of bioactive compounds in the sponge.

Methods: Antibacterial activity of the marine sponge C. diffuser was examined using petroleum ether, chloroform, n-butanol, methanol, ethanol, and water as solvents and tested against human pathogenic bacteria such as Esherichia coli, Pseudomonas aeruginosa, and Staphylococcus aureus by agar well diffusion method. Zoochemical analysis was performed to screen for the presence of secondary metabolites. Bioactive compounds were purified by thin layer chromatography (TLC) and were identified by gas chromatography-mass spectrometry (GC-MS) analysis.

Results: The results obtained show that the sponge extracts had significant antibacterial activity against the tested strains. The methanol extract was found to be the most effective and exhibited the highest potency against all pathogens tested. Zoochemical analysis revealed the presence of alkaloids, terpenoids, and sterols. In TLC, spots corresponding to a Rf value of 0.67 were found to possess antibacterial activity against the test bacteria. GC-MS chromatogram showed seven major peaks at retention time of 12.69, 13.81, 24.21, 24.65, 28.01, 28.93, 30.87 minutes. The mass of the compounds and fragments were matched with the National Institute of Standard and Technology (NIST) database for identification of probable compounds present in the sample, GC-MS analysis revealed the presence of bloactive compounds in the sponge.

Conclusion: This study confirms the marine natural species provides an excellent source of bioactive metabolites that can exploit to develop novel

Keywords: Callyspongia diffusa, Solvent extraction, Antibacterial activity, Thin layer chromatography, Gas chromatography-mass spectrometry.

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### INTRODUCTION

Sponges belong to the phylum *Porifera*, and they are ancient metazoans that have existed since 700-800 million years. They are abundantly present not only in the tropical oceans but also occur in temperate waters and even in fresh water [1]. They are simple multicellular invertebrates, and they are attached to solid substrates in benthic habitats [2]. The sponges are of three classes, namely, the Calcarea [5 orders and 24 families), Demospongiae [15 orders and 92 families), and Hexactinellida (6 orders and 26 families). About 15,000 species of sponges have been described so far [3].

Marine sponges are rich sources of pharmacological compounds [4]. Studies show that secondary metabolites of sponges play an important role in their survival in the marine water [5,6]. These secondary metabolites have interesting biomedical, pharmaceutical, and biotechnological applications [7]. These bioactive compounds are attributed to their antimicrobial, antivinal, antitumor, and general cytotoxic properties [8]. Porifera is the most important phylum, as it provides a number of natural products, especially novel pharmacologically active compounds [9].

Bioactive compounds from marine sponges have extensive application for the treatment of many diseases. Several molecules isolated from various sponges are involved in the advanced stage of clinical trials. In this study, we tested the organic extracts of marine sponge (Callyspongla sp.) for antibacterial activity against three strains of pathogenic bacteria followed by gas chromatography-mass spectrometry (GC-MS) analysis to separate and identify the major chemical compounds present in the sample.

### MATERIALS AND METHODS

### Collection of marine sponge

The sponge was collected from the Krusadai Island, Gulf of Mannar, Ramanathapuram District, Tamil Nadu, India. It is 3 km from Pamban and 500 m from Kundugal point (Lat 915'00' N, Long 79'13'25'E). Sponges were collected by scuba diving at a depth of 5-10 m. A part of the specimen has been deposited in the Microbiology Research laboratory of Dr. N, G, P. Arts and Science College for records.

### Identification of sponge

The sponge was identified as Callyspongia diffusa by Dr. R. Saravanan, Scientist, Central Marine Fisheries Research Institute, Mandapam Coast based on the skeletal characteristics (size and shape of the spicules), and external morphology. The color of its exterior was yellowish to purplish. Its body has small protrusions, cavities, and branches.

Kindon; Animalia

- Phylum: Porifera Class: Demospongiae Order: Haplosclerida
- Family: Callyspongidae

- Genus: Callyspongia
  Species: C. diffusa
  Generic name: Sponges
  Common name: Callyspongid sponge

Extraction of bloactive compounds from sponge
The sponge was rinsed thoroughly with sterile seawater to remove
algae or if any bacteria present on the surface of the sponge. The sponge
was then cut into small pieces of about 5 cm and then homogenized





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substrates of Aspergillus species, and frequent exposer of these field workers during harvesting of crops

is frequently prone to farmer's lung Aspergillosis

infection. Treatment of such fungal infections should

be considered with utmost consequence due to the

emergence of antifungal resistance, if untreated which

may be chronic leading to morbidity and sometimes

As fungal infections with multidrug resistance have

posed a great problem in tropics and the availability of

antifungal is lesser compared to antibacterial agents,

a search of alternative antifungal agents is a mandate

terpenoids, saponins, alkaloids, peptides, and proteins

fatal among the community.

# In vitro antifungal activity of Pterocarpus marsupium used among tribal communities of Western Ghats, Coimbatore, Tamil Nadu

Rangasamy Dhanabalan1\*, Subbu Balachandar1, Joseph Devakumar2

### ABSTRACT

KEY WORDS: Antifungal, aspergillosis, bronchopulmonary, folklore, mycosis

### INTRODUCTION

Website: jprsolutions.info

Dissemination of fungal spores is a major problem in the spread of spore derived allergic pulmonary diseases. In temperate and tropical climates Aspergilli are well-recognized causes of allergic bronchopulmonary infections. Aspergillosis has been recorded in India, regularly in tropical areas with the development of fungus ball and pulmonary cavitation in patients, causing severe hemoptysis secondary to tuberculosis, [11] A type of aspergillosis called Farmer's Lung infection is a housing of mold spores in pulmonary cavities among paddy field agrarians involved in farming practices. Farmworkers in Narasipuram, Semmedu, and areas near Velliangiri foothills (Poondi) of the Western Ghats, Coimbatore, are the chief cultivators of grains and sugarcane. [21] The husk, hay, and other grain debris are the major growth

Access this article online	to generation. Among secondary metabolites from herbal sources plant polyphenolics, essential oils.
n, Semmedu, and areas near Velliangiri di) of the Western Ghats, Coimbatore, ltivators of grains and sugarcane. [2] The other grain debris are the major growth	practiced among the folklore traditional healers for various diseases and disorders. From time immemorial, traditionally phytotherapy information has been conceded as oral communication from generation

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**Research Article** 



DOI: http://dx.doi.org/10.22192/ijarbs.2017.04.09.002

# Biocontrol of *Aspergillus* root rot by tripartite symbiosis in groundnut

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### Abstract

Aspergillus niger is responsible for causing root rot of groundnut. Ten A. niger isolates were isolated and studied in the groundnut cultivated area of Madurai. Groundnut was challenged with Aspergillus, and the production of pectinase and cellulase enzymes was investigated to assess the virulence of the fungal isolates. Among the ten isolates A. niger CLR10 produced highest percentage (40%) of diseased plants. Based on the production of these enzymes in groundnut plants challenged with the pathogen A. niger CLR10 produced highest level of these enzymes so it was used for further studies. The treatment  $AT_{13}$  recorded minimum percentage mortality (15.9%) and the pathogen only inoculated control recorded 100% mortality. Application of AMF with rhizobial isolates decreased the mortality in groundnut. The biocontrol studies revealed that the combined inoculation of AMF and Rhizobium sp. reduced the pathogenesis of A. niger CLR10. However, the treatment  $AT_{13}$  recorded significantly (p=0.05 and 0.01) higher growth parameters than other treatments. The investigation suggested that inoculation of Glomus mosseae and Gigaspora albida along with Rhizobium sp.GPMK1 and GMDU1 can improve not only the growth but also render disease resistance to groundnut. It can be summarized that the practice of multiple inoculation is found more effective as compared to the traditional practice of single inoculation of inoculums.

Keywords: Root rot, Aspergillus sp., Groundnut, Rhizobium sp., Biocontrol, Mycorrhiza.

### Introduction

Groundnut is one of the major oilseed crops in India. It is cultivated under diversified agro climatic conditions in about 6.6 million hectare producing about 5.9 million tons (FAO, 2005). The yield is influenced by soil fertility, climatic condition, varieties grown, cultural practices, insect pests & diseases and environmental stresses.

In the early 1980s groundnut was grown in Uttar Pradesh on 0.3 million ha with a production of 0.19 million tons. Since then, both area and production have shown a steady decline due to various reasons. Groundnut is an exhaustive crop and depending upon

the yield, it removes large amount of macro and micronutrients (Singh et al., 2008). Unfortunately, the groundnut production is hampered due to attack by different diseases. These include bacterial, fungal, nematode and viral diseases (Subrahmanyam et al., 1980). Rot diseases are mostly fungal disease, which are soil and seed borne. These cause disintegration of fruit and seed tissues and are covered with yellow or green spores. Fungal strains of Aspergillus flavus produce highly toxic aflatoxin. About 360 species of arthropod pests attack groundnut before harvest and cause direct damage as well as act as fungal and viral vectors (ICRISAT, 1987).





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# ASIAN JOURNAL OF PHARMACEUTICAL AND CLINICAL RESEARCH



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### BIOMIMETIC SYNTHESIS, CHARACTERIZATION AND EVALUATION OF ANTIOXIDANT, ANTIMICROBIAL EFFICACY OF SILVER NANOPARTICLES USING ANREDERA CORDIFOLIA LEAF EXTRACT

### RAJATHI K1\*, SUJA S2

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Received: 28 December 2016, Revised and Accepted: 19 January 2017

### ABSTRACT

**Objective:** This study is focused on the biosynthesis of silver nanoparticles (AgNPs) using aqueous extract of *Anredera cordifolia* and to investigate the free radical scavenging potential, antimicrobial activity of the nanoparticles against different human pathogens.

Methods: The formation of AgNPs was indicated by the color change from colorless to reddish brown. Biosynthesized AgNPs were characterized using several techniques, viz., ultraviolet (UV)-visible spectroscopy, Fourier transform infrared, X-ray diffraction (XRD), transmission electron microscopy (TEM), scanning electron microscopy (SEM), and energy dispersive X-ray analysis. The free radical scavenging potential was measured by 2, 2-diphenyl-1-picrylhydrazyl (DPPH), ferric reducing antioxidant power (FRAP) assay, antimicrobial activity against six microorganisms was tested using disc diffusion method.

Results: UV-visible spectral analysis showed silver surface plasmon resonance band at 426 nm. The crystalline morphology and size of the nanoparticles were determined by TEM, SEM, and XRD studies which showed the average size of the nanoparticles in the range 40-60 nm. The biologically synthesized nanoparticles efficiently inhibited pathogenic organisms such as Escherichia coli, Staphylococcus aureus, Klebsiella pneumonia, Pseudomonas aeruginosa, and Proteus vulgaris. The biosynthesized nanoparticles might serve as a potent antioxidant as revealed by DPPH assay and FRAP assay.

Conclusion: The biosynthesis of AgNPs had several advantages in pharmaceutical applications as well as large-scale commercial production.

Keywords: Silver nanoparticle, Anredera cordifolia leaf, Scanning electron microscopy, Transmission electron microscopy, X-ray diffraction, Antioxidant, Antimicrobial.

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### INTRODUCTION

Nanotechnology can be termed as the synthesis, characterization, exploration, and application of nanosized (1-100 nm) materials for the development of science. The intrinsic properties of metal nanoparticles are determined by size, shape, composition, crystallinity, and morphology. It is a field of science which deals with production, manipulation and use of materials ranging in nanometers. In nanotechnology nanoparticles research is an important aspect due to its innumerable applications. The nanoparticles have a wide range of applications, as in combating microbes [1], biolabeling [2], and in the treatment of cancer [3]. The antibacterial activity of silver species is known since ancient times [4] and it has been demonstrated that, at low concentrations, silver is nontoxic to human cells [5]. It has also been reported that Ag' ions uncouple the respiratory chain from oxidative phosphorylation or collapse the proton-motive force across the cytoplasmic membrane [6]. The interaction of Ag' with bacteria is directly related to the size and shape of the nanoparticles [7].

The research in nanotechnology highlights the possibility of green chemistry route to produce technologically valuable nanomaterials. In recent times, prevalence resistance to antimicrobial agents has emerged as a major health problem [8]. Biosynthesis of metallic nanoparticles is an eco-friendly process in the field of applied nanotechnology [9].

Among all metal-nanoparticles, silver nanoparticles (AgNPs) exhibit tremendous applications in spectrally selective coatings for solar energy absorption, optical receptors, biolabeling, intercalation materials for electrical batteries, filters, antimicrobial agents, and sensors [10]. AgNP-embedded antimicrobial paint [11] is a promising area of ecofriendly applications. Hence, a variety of techniques including physical and chemical methods have been developed to synthesize AgNPs, the physical methods [12] are highly expensive and chemical methods are harmful to the environment [13]. Therefore, there is a growing need to develop environmentally benign nanoparticle synthesis processes that do not use toxic chemicals in the synthesis protocols.

It is generally recognized that AgNPs may attach to the cell wall, which disturbs cell-wall permeability and cellular respiration. The nanoparticles may also penetrate inside the cell causing damage by interacting with phosphorus and sulfur containing compounds such as DNA and protein. Another possible contribution to the bactericidal properties of silver particles is the release of silver ions [14].

Many researchers demonstrated the green synthesis of AgNPs including bacteria, actinomycetes, fungi and plants. Whereas, the plant materials have been successfully applied for AgNPs synthesis, due to its potential medicinal property, availability, possibility of faster rate of synthesis and may also reduce the steps in downstream processing, thereby making the process cost efficient [15,16].

This study was designed with a simple, cost-effective, and environmentally synthesis method of AgNPs at ambient conditions using *Anredera cordifolia* leaves as a reducing and stabilizing agent. In this study, we have explored the green synthesis of AgNPs using *A. cordifolia* leaf extract. Synthesized nanoparticles were characterized by ultraviolet (UV)-visible spectroscopy, X-ray diffraction (XRD).





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### IN VITRO CYTOTOXICITY TESTING OF BIOSYNTHESISED SILVER NANOPARTICLE OF ANDREDERA CORDIFOLIA IN PROSTATE CANCER CELLS (PC-3)

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### ABSTRACT

Silver nanoparticles because of their interesting characteristics are currently the most widely used nanoparticles. One of the interesting properties is that they display antimicrobial activity. Concomitantly they exert cytoprotective effect on human cells. It is of interest to validate and analyse this property. In the present study, silver nanoparticles were synthesised with particle size between 40-60nm in diameter. These were then used to analyse their uptake and consequent cytotoxic effects on Human Prostate cancer cells (PC-3). The formation of Ag-NPs was confirmed by UV-Visible Spectroscopy, X-Ray Diffraction (XRD) pattern, Scanning Electron Microscopy (SEM) and Transmission Electron Microscopy (TEM). The synthesized Ag-NPs were predominately spherical in shape and polydispersed. Fourier Transform Infra-Red (FT-IR) spectroscopy analysis showed that the synthesized nano-Ag was capped with bimolecular compounds which are responsible for reduction of silver ions. The AgNPs showed potent cytotoxic activity against the human prostate cancer (PC-3) cell line at higher concentrations.

KEYWORDS: Cytotoxic effect, PC-3 cell line, silver nanoparticle, Andredera cordifolia, Cell viability, etc

### INTRODUCTION

Carcinogenesis is a complex and multi-step process in which distinct molecular and cellular alterations occur. A cancer chemopreventive agent could be effective at any of these defined stages of carcinogenesis: initiation, promotion, progression. [1, 2] The preventive mechanisms of tumor promotion by natural phytochemicals range from the inhibition of genotoxic effects, increased antioxidant and anti-inflammatory activity, inhibition of proteases and cell proliferation, protection of intercellular communications to modulation of apoptosis and signal transduction pathways [3]

Prostate cancer is the most common non-cutaneous solid cancer occurring among men in the USA. The most recent estimates from the American Cancer Society. [4] showed that about 240,890 new cases of prostate cancer would be diagnosed in 2011, with 33,720 deaths attributable to prostate cancer in the United States alone. About one of six males in the U.S. may be afflicted with this cancer, and the risk is increased drastically for older males. Moreover, the risk of death due to metastatic prostate cancer is 1 in 36. Genetics, age, race, diet, and family history, and even lifestyle may all contribute to prostate cancer risk. [5] The treatment options for prostate

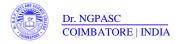
cancer are surgery, chemotherapy, cryotherapy, hormonal therapy and/or radiation, but all are only beneficial at the early stages, with no significant effects after metastasis. Therefore, there is a high need for treatments that will stop the metastasis and invasion of prostate cancer cells.

Rapidly developing field of nanoscience had raised the possibility of using therapeutic nanoparticles in the diagnosis and treatment of human cancers <sup>[6]</sup>. Nanoscale particles and molecules are a potential alternative for treatment of disease because they have unique biological effects based on the structure and size, which differ from traditional small molecule drugs. <sup>[7]</sup>

The role of silver nanoparticles as an anticancer agent should open new door in the field of medicine. Silver nanoparticles should serve as one of the best ways of treating diseases that involve cell proliferation and cell death. [8]

The cytotoxic effects of silver are the result of active physicochemical interaction of silver atoms with the functional groups of intracellular proteins, as well as with the nitrogen bases and phosphate groups in DNA.<sup>19</sup>.

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# In vitro antifungal activity of Pterocarpus marsupium used among tribal communities of Western Ghats, Coimbatore, Tamil Nadu

Rangasamy Dhanabalan1\*, Subbu Balachandar1, Joseph Devakumar2

#### ABSTRACT

Background: To investigate the *in vitro* antifungal activity of *Pterocarpus marsupium* leaf extracts used in folklore treatments among tribal community in the Western Ghats of Coimbatore district. **Methods**: The crude aqueous and organic solvent leaf extracts extracted by cold maceration method were subjected to antifungal activity against *Aspergillus flavus* and *Aspergillus flavus* and *Aspergillus flavus* and the properties of the pr

KEY WORDS: Antifungal, aspergillosis, bronchopulmonary, folklore, mycosis

### INTRODUCTION

Dissemination of fungal spores is a major problem in the spread of spore derived allergic pulmonary In temperate and tropical Aspergilli are well-recognized causes of allergic bronchopulmonary infections. Aspergillosis has been recorded in India, regularly in tropical areas with the development of fungus ball and pulmonary cavitation in patients, causing severe hemoptysis secondary to tuberculosis.[1] A type of aspergillosis called Farmer's Lung infection is a housing of mold spores in pulmonary cavities among paddy field agrarians involved in farming practices. Farmworkers in Narasipuram, Semmedu, and areas near Velliangiri foothills (Poondi) of the Western Ghats, Coimbatore, are the chief cultivators of grains and sugarcane.[2] The husk, hay, and other grain debris are the major growth

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substrates of Aspergillus species, and frequent exposer of these field workers during harvesting of crops is frequently prone to farmer's lung Aspergillosis infection. Treatment of such fungal infections should be considered with utmost consequence due to the emergence of antifungal resistance, if untreated which may be chronic leading to morbidity and sometimes fatal among the community.

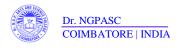
As fungal infections with multidrug resistance have posed a great problem in tropics and the availability of antifungal is lesser compared to antibacterial agents, a search of alternative antifungal agents is a mandate with null side effects. Phototherapy is an arena practiced among the folklore traditional healers for various diseases and disorders. From time immemorial, traditionally phytotherapy information has been conceded as oral communication from generation to generation. Among secondary metabolites from herbal sources plant polyphenolics, essential oils, terpenoids, saponins, alkaloids, peptides, and proteins were evidenced to be natural antifungal compounds

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### Research Article

# In vivo antiplasmodial activity of medicinal plants used in pyrexia among ethnic communities of Western Ghats, Coimbatore, Tamil Nadu

Rangasamy Dhanabalan\*, Subbu Balachandar, Joseph Devakumar, Babyraj Sreeraj, Jayasanker Nambiar Chandni

### ABSTRACT

Background: Four folklore medicinal plants Achyranthes aspera, Argemone mexicana, Myristica fragrans, and Pterocarpus marsupium leaf extracts were investigated for their antiplasmodial activity in Plasmodiam berghei infected Swiss albino mice model. Methods: The in vivo antiplasmodial activity was carried out adopting classical Peter's 4-day suppressive test, and Rane's Curative assay. Results: Peter's four day test confirmed the significant parasite suppression 97.72% (P<0.001) in chloroquine (CQ) control prolonging the mean survival time of animals for 32 days. In Peter's four day test the extracts PMMLE, AMMLE and AMCLE exhibited a leading parasite suppression of 81%, 76.13%, and 73.86% respectively. The antiplasmodial extracts AMMLE, AMCLE, AMMLE, PMMLE and PMCLE screened from the suppressive test subjected in the curative assay revealed notably significant parasite suppression of 74.2% Peter's four day test (P<0.001) in PMMLE at 400 mg/kg b.wt, whereas the extracts PMCLE and AMMLE at 400 mg/kg b.wt disclosed dose dependent suppressive effect of 60.8%, and 55.43% respectively compared to all other extracts subjected. Three extracts PMMLE, PMCLE and AMMLE screened from curative assay were subjected in prophylactic test, where PMMLE was found to be potential in defeating parasites >50% at a dose level of 200 and 400 mg/kg b.wt with 57.23% and 77.23% achieving a statistical significance P<0.05, whereas the AMMLE did not express significant parasite suppression compared to other extracts subjected in the assay. Conclusion: The present investigation establishes, the selected plant species were effective in assorted range of antiplasmodial activity and could be a potential source in antimalarial drug discovery.

KEY WORDS: Antiplasmodial activity, Apicomplexan, Chemosuppression, Plasmodium berghei

### INTRODUCTION

Among top three parasitic infections, malaria stands as a major health concern worldwide. In the developing countries, eradication of malaria still remains as a major health concern due to the resistance of mosquito vectors disseminating the infection among human host. The treatment regimen and purge of malaria poses a great problem worldwide due to the emergence of drug-resistant parasites. A fact sheet of world malaria report 2017 states, in 2016, there were an estimated 216 million cases of malaria, an increase of about 5 million cases over 2015. Malaria deaths reached 4, 45,000 estimating on data from 91 countries and areas

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with ongoing malaria transmission. The world malaria report also states that the countries with weak malaria surveillance systems include India and Nigeria, two major contributors to the global burden of malaria, with 8% and 16% of cases, respectively, detected by the surveillance system.[4]

Malaria apicomplexan parasite has emerged with resistance for conventional antimalarial agents and its incessant epitope change limited the success of malarial vaccines. Plants are veritable sources for their valuable phytometabolites being considered in the therapy and remedy of several ailments. For the past few decades in the field of medication, an upsurge in phototherapy has been recognized for safe treatment with nil side effects. Among different plant species Achyranthes aspera, Argemone mexicana, Myristica fragrans, and Pterocarpus marsupium are the folklore medicinal plants used between tribal

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# SURVEY ON WEB CONTENTS, WEB MINING AND PAGE RANKING

V.Jayashree1, Dr.N.Sumathi2

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<sup>2</sup>Department of Information Technology , Sri Ramakrishna College of Arts and Science (Autonomous), (India)

### ABSTRACT

Web mining associate on the knowledge retrieval and the extraction data are analyzed. This web data process is extracted on the available sources (server, web page, cookies) search data is retrieved on the information retrieval. The relevancy to the user need using search rank algorithm information retrieval process is going on the web mining. The web mining serves on the log files on the ASCII text files to be log on the user's the high data usage are intended on the web documents in the Information retrieval. This paper will introduce late research utilizing keywords and information retrieval. Most of the search engines are ranking their search results in response to user's queries to make their search navigation easier and it exploresthe Agent based weighted page ranking algorithms for web content mining to retrieve more relevant information. AWPR algorithm retrieves the most important content information or web pages in front of end users.

Keywords-Data extraction, Web Content Mining, Page Rank, Weighted Page Rank

### **I.INTRODUCTION**

Web mining traverse on the pattern in the web navigation mining path traversal graph are recommended on the web mining[4]. Web traversal mining navigates on the horizontal line. The user navigation pattern in the hyperlinks. The method is navigated on the certain pattern web content mining are categorize under the web query. While there are many benefits to be gained from web mining, A clear drawback is the potential for severe violations of privacy. As online learning method are expanded to the standard level. In late 2006 the education standard and quality assurance are medium level. Now the education standard is increased better. The web mining is created through the web logs. The web usage mining association rules are exceeded some specified threshold. [5] Classification techniques are building under the several e-commerce areas. The culture mining is discovered using web mining concept. The culture plays an important role predicts to be search on web mining. [6] Web mining system is constructing under the organized structure. To avoid problems we analyze the web data to the optimal solution to fulfill these conditions. The data base is stored by the resource to construct

Personalized PageRank is a page rank calculation where random jumps are only allowed to a subset of start nodes. The resources of current process of calculation of Personalized PageRank are highly prohibitive. FAST Personalized PageRank is utilized to find the target nodeset. Using the mentioned target set, the algorithm gives an estimation of the closeness of any pair of nodes in the graph. As the time taken by the estimation of Personalized PageRank is directly proportional to the network size[11].

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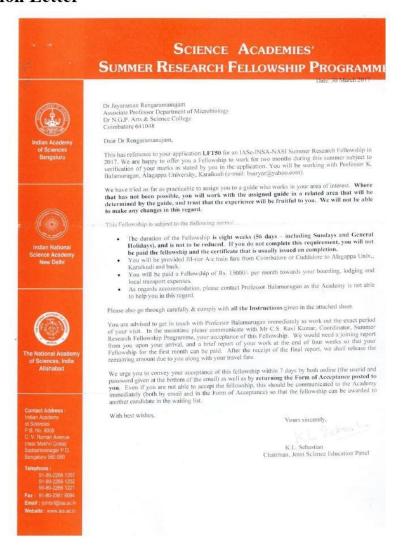
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# 2. Research - Fellowship Collaborations - Academic Year (2017-18)

# 1. Dr. J. Rengaramanujam - Summer Research Fellowship Programme

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# **Approval Letter**

Coimbatore-48 04/04/2017

From

Dr. J. Rengaramanujam Associate Professor Department of Microbiology Dr. N.G.P. Arts and Science College Coimbatore-48

To

The Madam Secretary Dr. N.G.P. Arts and Science College Coimbatore-48

Through

The Principal, Dr. N.G.P. Arts and Science College Coimbatore-48

Respected Madam,

Sub:- Science Academies' Summer Research Fellowship Program- Reg.-Req.

I have been selected for "Summer Research Fellowship-2017 (SRF-17)" by Indian Academy of Sciences- Bengaluru, Indian National Science Academy- New Delhi and The National Academy of Sciences, Allahabad for a tenure of 36 days to work with Professor K. Balamurugan, Department of Biotechnology, Alagappa University, Karaikudi. In this regard I kindly request you to permit me to take the offer from 17<sup>th</sup> April to 11<sup>th</sup> June 2017. This opportunity will help me in upgrading my research aptitude. Kindly do the needful.

Thanking You

Yours Sincerely

(DR. J. RENGARAMANŪJAM)

Encl:-

1. Offer Letter

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Dr. K. Balamurugan Professor



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12-06-2017

### CERTIFICATE

This is to certify that Dr. J. Rengaramanujam has attended IAS (Indian Academy of Sciences) Summer Research Training Programme for the past 56 days (17.04.2017 – 11.06.2017) at the Department of Biotechnology, Alagappa University, Karaikudi under me. It is further certified that his character and conduct was good during the research training period.

Dr. K. BALAMURUGAN
PROFESSOR
DEPARTMENT OF BIOTECHNOLOGY
ALAGAPPA UNIVERSITY
KARAIKUBI - 630 003





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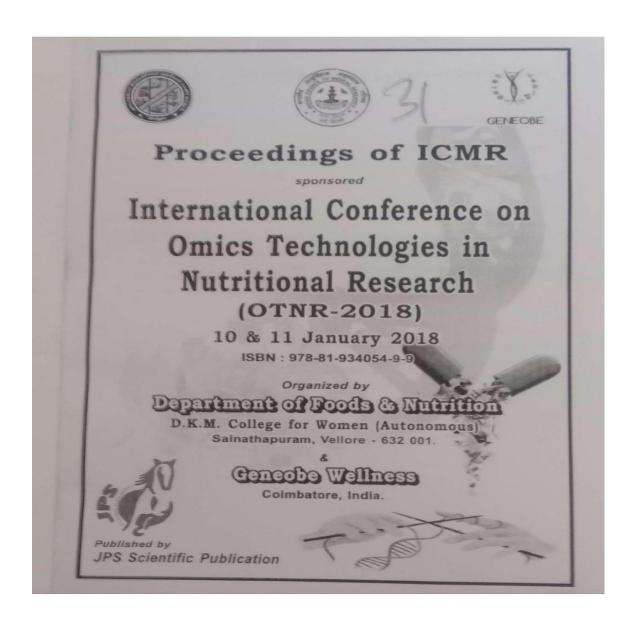
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GLYCAEMIC INDEX OF KIDNEY BEAN(PHASEOLUS VULGARIS) INCORPORATED IDLI – A CEREAL AND LEGUME BASED FERMENTED FOOD

S.UmaMaheswari Vadivelan<sup>1</sup> and Prathap Kumar H. Shetty<sup>2</sup>

- LAssistant professor, Department of Nutrition and Dietetics, Dr. NGP Arts and science college, Coimbatore.
- Head & Associate professor, Department of Food Science and Technology, Pondicherry University, Pondicherry.

### ABSTRACT

The aim of the present study was to improve the nutritional and glycaemic index of idli by substitution of kidney bean in idli batter. Fasting blood glucose level was taken and post prandial blood glucose level (at 30 min interval till 2 hours) was checked with bread as standard to assess the glycaemic index of control idli and developed idli. Based on the overall results of both textural and sensory parameters, the present data suggest that kidney bean could be substituted up to a level of 40% in idli batter to develop organoleptically acceptable breakfast food. The mean blood glucose levels were increased after the intake of idli at 30 and 60 minutes, after which there was a decrease from 60 minute to 90 minute and 120 minute. The glycaemic index of control idli was 98 and significantly higher (p<0.05) than idli incorporated with *Phaseolus vulgaris* From the results it is possible to identify food preparations in the traditional Indian diet having attributes of desired glycaemic effect, delayed peak rise, low glucose response curves. However in the present study, value added idli has high hypoglycaemic effect than control idli.

KEYWORDS: Idli, Phaseolus vulgaris, textural and sensory parameters glycaemic index

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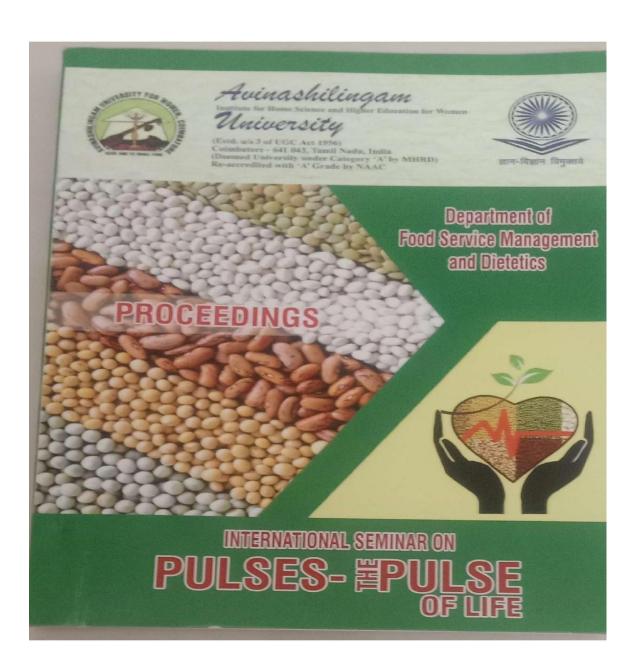
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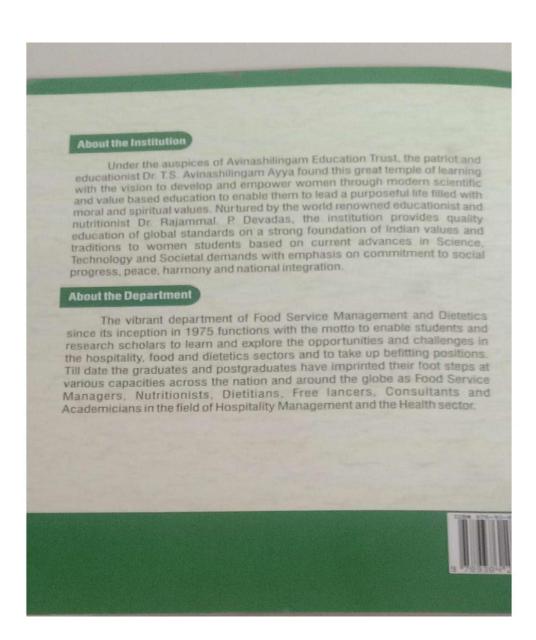
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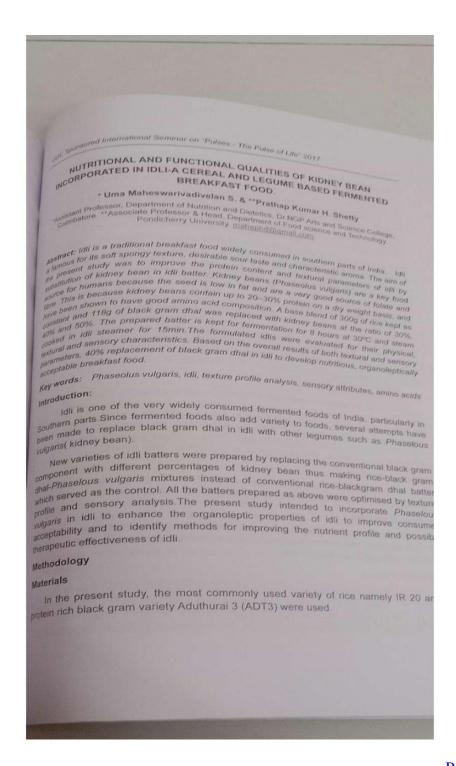
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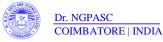
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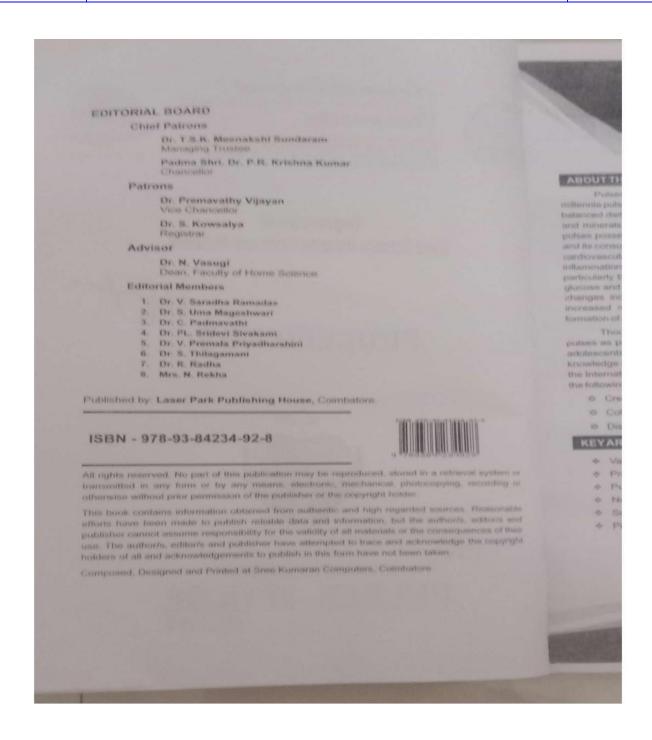
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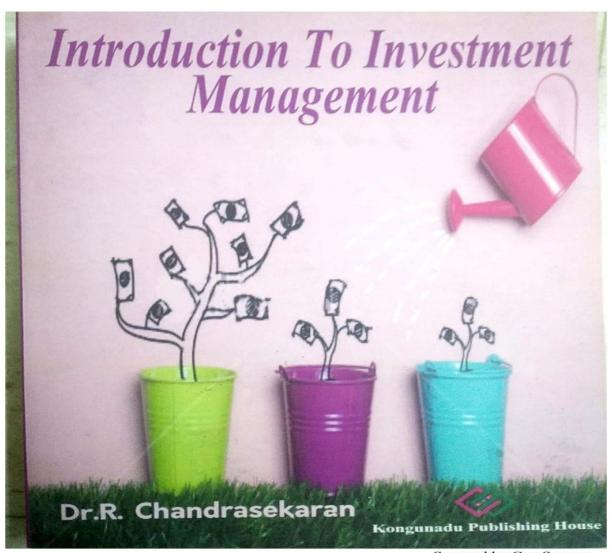
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Dr. S. Krishnaraj, The Principal i/c of Bharathiar University Arts and science College, Pollachi is a resourceful, eminent and devoted scholar in the domain of Business Management with 15 years of teaching experience having very great administrative strategies and professional skills. Dynamic person stood up from the rural background achieved this position with his very strong and dedicated hard work. Post graduate in Master of Business Administration, Master of Corporate Secretaryship, Master of Philosophy and Post Graduate Diploma in Insurance Management from Alagappa University, Karaikudi. PhD from Bharathiar

University, Coimbatore.

Dr. S. Krishnaraj as a Principal, contributed his valuable ideas and made remarkable changes and developments in Bharathiar University Arts and Science College, Pollachi for the last one and half years. In addition to this assignment, he holds the position of Associate Professor in Bharathiar School of Management and Entrepreneur Development, Bharathiar University, Coimbatore, where he is serving as Associate Professor and in other capacities for the past three years. He also got Outstanding Faculty Awards in management in 2017, 2018 & 2019 for his exceptional academic records and research excellence in the area of Human Resource Management. He has filed patent with the patent of office Journal. He has published more than 20 papers in reputed National and international Journals. Speaker of Career guidance programme organized by the Department of School Education, Tamil Nadu and Daily Thanthi National daily newspaper. Delivered Keynote address in numerous National and International Conferences organized by the colleges in Tamilnadu.



Suji.U, an eminent research scholar in the domain of Business management with seven years of corporate experience, a dynamic person with a great team management skill and smart working strategies, with a great passion for teaching, attempted a shift from corporate to campus. She is a person who strongly believed that teaching, besides knowledge transfer, should be a source to a positive transformation in the receiver. She completed BCS (Corporate Secretaryship) from PSG college of Arts and Science, Coimbatore, Master of Business Administration and Master of Philosophy from Bharathiar University, Coimbatore.





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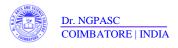
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Dr. R. Chandrasekaran

MBA, M.Phil, .Ph.D, .SLET, .M.Com., SLET.PGDPM., PGDED. Working as a Assistant Professor since 2016 in Dr.N.G.P. Arts and Science College, previously worked in CBM College since 2009. He has so far written 10 Research articles in various journals. He has teaching experience over Nine years. His areas of interest in teaching and research include Finance and Human Resource Management. He has completed online course on the topic of Marketing Research Methodology sponsored by Indian Institute Technology - Roorkee.

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Financial Market- Meaning - Types of Financial Markets in India: On the Basis of Claim on financial Assets - On the Basis of Maturity of the Claims - On the Basis of Domicile.

### IV. Capital Market (Primary Market) - 82

Definition - Growth of Indian Capital Market - Functions of Capital Market - Types of Capital Market - Primary Market - Role of Primary Market - Features of Primary Market - Functions of Primary Market - Primary Market Issue Mechanism - Issue Process -





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**NAAC** 3<sup>rd</sup> Cycle

**Criterion III Metric 3.7.1** 

# 2.Student Internship Collaborations – Academic Year (2017-18)

tar Colourpark India (P) Ltd

# 110 Asoka Plaza, 483 Dr. Nanjappa Road, Colmbatore - 641 018. Ph : 0422 - 2234161 e-mail: starcolourpark@gmail.com

Date: 26.05.2018

### To Whom So Ever It May Concern

This is to certify that R. SATHISH KUMAR, II B.Com (IT) (Reg. No.161CI046) student of Dr. N.G.P Arts and Science College, Coimbatore has under gone and industrial training for a period from 08.05.2018 to 26.05.2018 in our concern. He has been regular and shown keen interest in learning.

During the period of his internship programme with us he was found punctual, hardworking and inquisitive. We wish him success in all his future endeavors.

> k. Janagara Signature

Stat Celeb-110, Asohu 2:e22 485, Dr. Maijappa Hoad, Gandhinere Combustore 541 018. Phone, 0422-2234903





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**NAAC** 3rd Cycle

**Criterion III Metric 3.7.1** 



300/8, Peelamedu Industrial Estate, Vilankurichi Road, Peelamedu, Coimbatore - 641 004. Ph : 0422 - 6531533 E-mail : garudacasting@gmail.com

Date: 25.05.2018

### **INDUSTRIAL TRAINING CERTIFICATE**

This is to certify that Vinitha.R., Roll No: 161CI057 studying III year in B.com IT in Dr.NGP Arts & Science College, Coimbatore - 641048. Has undergone industrial training in our company as a part of her course for the period of 10th May 2018 to 25th May 2018. During this period her conduct and performance was found good.

Thanking you,

Yours Truly,

For Garuda Casting.

For GARUDA CASTING Trues of Lind of





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Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

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NAAC 3<sup>rd</sup> Cycle

Criterion III Metric 3.7.1

AN 180 YOUT-2008/HACCP CERTIFIED INDUSTRIAL CO-OPERATIVE TEATACTOR.

TN.VAT No. 33712580192 / dt. 01.01.2007 CST No. 345634 / dt. 24-07-80 K.VAT No. 32150311222-c / dt. 01.04.05 OFF: 04262 - 261312 04262 - 262512 04262 - 261630 Tele Fax: 04262 - 261368 E-mail: salisburytea@gmail.com

28.05.2018

Dated:

# THE SALISBURY INDUSTRIAL CO-OPERATIVE TEA FACTORY LTD.,

Regd. No. IND. No. 1186 GUDALUR - 643 212, THE NILGIRIS, TAMIL NADU

L. Jayaprakash, MA, M.Phil., PGDPM., Deputy Director(Indl.Co-ops.)/Managing Director

### **CERTIFICATE**

This is to certify that Mr. FIROZ AHAMED. M., S/o. A.K. Mohamed Rafi, a Final Year B.Com (IT) Student of Dr. N.G.P. Arts and Science College, Coimbatore Regd.No. 161Cl008 has undergone the "Internship Training" in our organization for the period of 15 days from 11.05.2018 to 28.05.2018. During the above training period his performance, conduct and character are found to be good and satisfactory.

"We wish him all success".

MANAGING DIRECTOR

Copy to: File. Tr.78.





Under the Control of the Department of Industries and Commerce, Govt of Tamil Nadu.



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**NAAC** 3rd Cycle

**Criterion III Metric 3.7.1** 



Mabile 99428 73099 90432 78099 90432 78099 90432 78099 Avinashi - 641 654 Tirupur (Dist) E-Mail spngarments@gmail.com

Date 24/05/2018

### To Whom So Ever It May Concern

This is to certify that E. NARAYANA SAMY , III B.Com (IT) (Reg. No.161CI022 ) student of Dr. N.G.P Arts and Science College, Coimbatore has under gone and industrial training for a period from 08/05/2018 to 23/05/2018 in our concern. He has been regular and shown keen interest in learning. During the period his character and conduct was good.

We wish him success in all his future endeavors.

For S.P.N. GARMENTS

N. 6 Juno 100 AMICO

TIN: 33236314180 CST: 1188188 Dt: 1-06-2015





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Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

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NAAC
3rd Cycle

Criterion III Metric 3.7.1

# SABARIVEL IRON & STEELS

No:4/95 D. Veetha Gounder Thottam, Kalapatti, Coimbatore 641948

Phone: 0422-2915695 E-mail: svisteetss@gmail.com

TIN No.33982227400 CST,No.1164675 Dt 21.10 2013
Frading in: Cement,TMT Rods,Binding Wires,M S Tubes & Pipes,CR & HR Sheets,Angles,Channels and Ptates

Date: 24/05/2018

## To Whom So Ever It May Concern

This is to certify that V. SWATHY, III B.Com (IT) (Reg. No.161CI052) student of Dr. N.G.P Arts and Science College, Coimbatore has under gone and industrial training for a period from 08/05/2018 to 23/05/2018 in our concern. She has been regular and shown keen interest in learning. During the period her character and conduct was good.

We wish him success in all her future endeavors.







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Approved by Government of Tamil Nadu and Accredited by NAAC with 'A' Grade (2<sup>nd</sup> Cycle)

Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

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Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

NAAC 3<sup>rd</sup> Cycle

Criterion III Metric 3.7.1



No.134, 2nd Floor, 4th Street Opp to Hotel Gowrishanka Gandhipuram, Coimbatore - 641012 Ph:+91 422-4349207 | +91 9600 984 98 Email: info@abiletechnolgies.con

Date: 22.05.2018

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that DHINAKARAN D pursuing BSC (IT) at, DR.N.G.P ARTS AND SCIENCE COLLEGE, COIMBATORE has successfully completed his Internship Training on "WEB DEVELOPMENT" in our concern for the period starting from 07.05.2018 to 22.05.2018.

We wish all the best for his future endeavours.

For Abile Technologies,

ABILE TECHNOLOGIES

134, 2nd Floor, 4th Street,
Copp To floral Countistantian,
Cut Road, Culinholore - Calling
The Acad Season, 20000 mag.

(HR-Management)

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Approved by Government of Tamil Nadu and Accredited by NAAC with 'A' Grade (2<sup>nd</sup> Cycle)

Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

NAAC 3<sup>rd</sup> Cycle

Criterion III Metric 3.7.1



No.134, 2nd Floor, 4th Street, Opp to Hotel Gowrishankar, Gandhipuram, Coimbatore - 64 1012. Ph: +91 422-4349207 | +91 9600 984 984

Email: info@abiletechnolgies.com

Date: 22.05.2018

#### TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. P.GOKULAPRIYA pursuing B.Sc (IT) at, Dr. N.G.P. Arts and Science College, Coimbatore has successfully completed her Internship Training on "WEB DEVELOPMENT" in our concern for the period starting from 07.05.2018 to 22.05.2018.

We wish all the best for her future endeavours.

For Abile Technologies,

(HR-Management)

134, 2nd Figur. 4th Streets.
Cpt To Herr. Coundains 1845.
Ctt Road, Colmbetone - 641 012.
2nd 6422 4343207, 20000 84084

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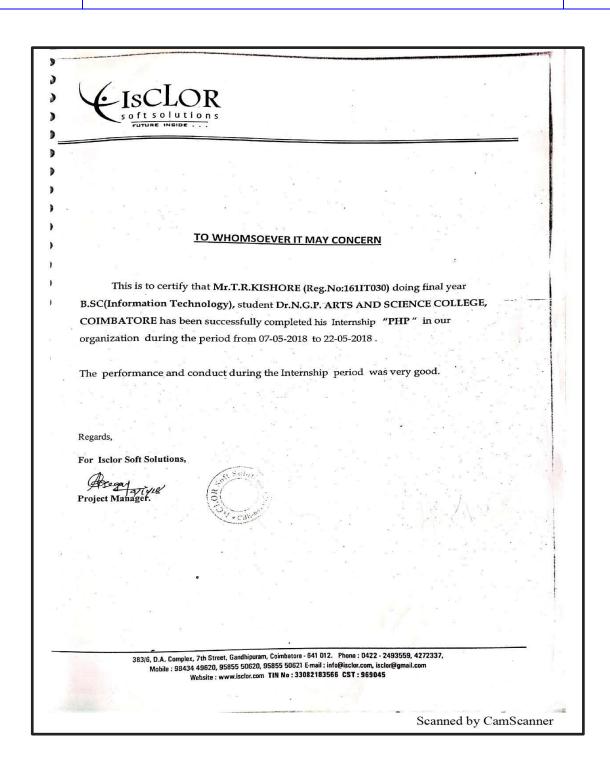
(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

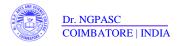
Approved by Government of Tamil Nadu and Accredited by NAAC with 'A' Grade (2<sup>nd</sup> Cycle)

Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

NAAC
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Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

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NAAC 3<sup>rd</sup> Cycle

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3		Reference No: Intern / 34/2018	
و ز		DATE : 18/05/2018	
7 3			
] 3	TO WHOMSOEV	ER IT MAY CONCERN	
7 3	•		
)	This is to certify that Mr. T. NAVEEN KUMAR ( Roll No: 161IT041 ),		
,	Bachelor of Science in Information Technology Department Student of the "Dr.		
	N.G.P. Arts and Science College, Coimbatore" has recognized to do ins		
3	internship in "Application Development using DotNet Technology" in our		
,	concern from the period of 07/05/2018 to 18/05/2018.		
	During the training, he has performed excellent in all terms of company		
•	regulations with hard work, sincerity, perseverance and diligence. We wish a		
•	great endeavor for his carrier.		
3			
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3			
•	Market State of the State of th		
•	Software Development   Web Designing   Web Hosting   Mobile Application   Research & Development  US Address:  US Address:		
•	Software Development   Web Designing   Web	US Address :	
•		2600, Ventura DIVC, 750	
3	Regd. Office: 4/16, Union Road, Kavundampalayam, Coimbatore - 641 030, Tamilnadu, INDIA.	Mobile : +1 847 505 5502	
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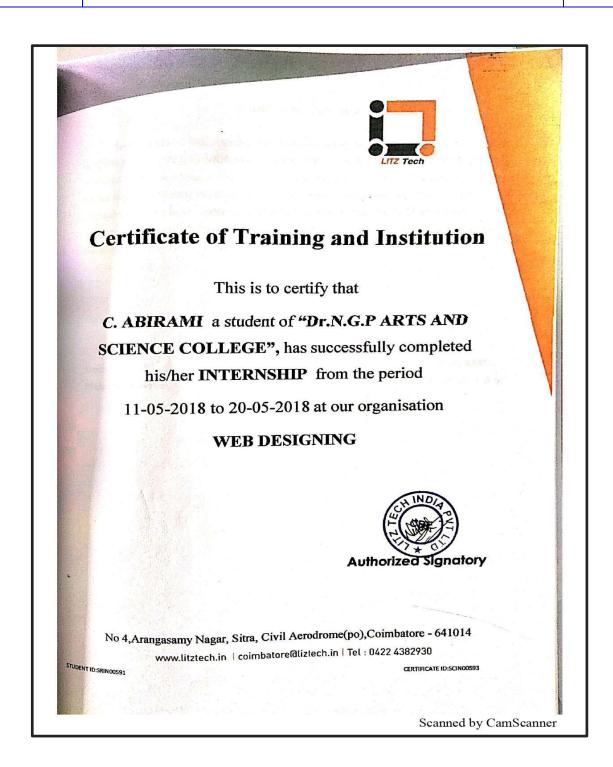
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Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

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NAAC
3rd Cycle

Criterion III Metric 3.7.1

Swisz Tech

Thursday, May 24th, 2018

#### INTERNSHIP COMPLETION LETTER

We are glad to inform you that Mr. K.SIVACHANDRU (REGNO: 161IT153) studying in II BSC (Information Technology) at from Dr.N.G.P ARTS & SCIENCE COLLEGE, has successfully completed his internship at SWISZ TECH from 8.5.2018 to 22.5.2018.

During his Internship, he was exposed to the various activities in PHP Software, and Custom Software Development Division.

We wish him all the best in his future endeavors.

N. No. 114, Gokule Street, Opp. Senthil Kumaran Theater, Ramnagar, Coimbatore - 641 009.

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Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

NAAC
3rd Cycle

Criterion III Metric 3.7.1



From The Branch Manager Cheran ma Nagar Branch COIMBATORE – 641 004 To
The principal
Dr. NGP arts and science college
Kalapatti road
Coimbatore-641048

Dear Sir,

Reg: Training attended by the students of your institution.

This is to certify that Ms. Alguney A - C, has attended the training in our branch from 9.5.20.7 to 21.5.20.7. The student is undergoing B. Com, course in your institution.

During the training the conduct and punctuality of the student was \_\_\_\_ and they have learned the basics of banking, KYC norms, LOCKER modalities and various schemes of GOVT OF INDIA.

J. S. A

एस दिनेश कुमार S. DINESH KUMAR (S. Dineshkumar)<sup>29</sup> Branch Manager.





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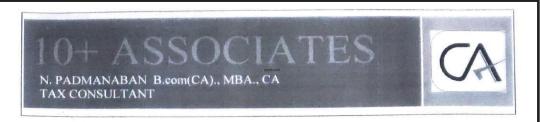
Approved by Government of Tamil Nadu and Accredited by NAAC with 'A' Grade (2nd Cycle)

Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

NAAC
3rd Cycle

Criterion III
Metric 3.7.1



Date: 05/06/2017 Place: Kalangal

#### TO WHOM IT MAY CONCERN

This is to certify that **Miss. S. Bhuvaneshwari (Reg Num: 151B1008)** a student of B.com (Banking & Insurance) in Dr. NGP Arts & Science College, Kalapatti, Coimbatore has successfully completed 10 days ( 08/05/2017 to 19/05/2017 ) training at this concern. His Performance during the period was good.

We wish him all the success in his future Endeavour.

For 10+ ASSOCIATES

Proprietor

Address: 2/267, Sakthi Nagar, Kalangal Post, Sulur TK, Coimbatore – 641402. Email: ca.padmanaban@gmail.com

PH: 81908-43354 97158-53339





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**NAAC** 3rd Cycle

**Criterion III Metric 3.7.1** 



Date: 10.05.2017

To

The Head of the Department Department of Commerce-with Banking & Insurance Dr N.G.P. Arts & Science College Kalapatti Road COIMBATORE 641 048

Dear Sir/Madam,

Sub: Student Mr. GOPIKRISHNAN. R, II B.Com (151BI015) Permission to undergo Internship Training in our industry.

This is in reference to your letter dated 18.04.2017. We are pleased to accord permission to the student Mr. Gopikrishnan R, of II B. Com., to undergo Internship Training in our industry for a period of 15 days.

Upon successful completion of the training, he will be issued a Certificate to that effect. He will be required to submit a copy of the Project Report, before completion of the training.

During the period, he may have to deal with important and sensitive information, records and such other matters of the company. He will, therefore, be required to sign a "code of conduct and secrecy agreement", on the first day of training.

> PIPES for AQUAR

**AQUARIUS PVC PIPES** 

Manufacturers: PVC, UPVC & Conduit Pipes

TIN: 33196205562 | CST: 1020912 Dt: 27.10.2010





7/79 (1), Arasamarathottam, Kondayampalayam. Thennamanallur (Po), Thondamuthur (Via), Coimbatore - 641 109. Off: 98422 55252, 98423 66055 E-mail: aquariuspipes@gmail.com





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Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

NAAC
3rd Cycle

Criterion III Metric 3.7.1

V.R. EXPORTS

591/2A,2B, Sri Lakshmi Nagar, Pitchampalayam Pudur, TIRUPUR - 641 603, PHONE: 0421 - 2479111, 2479112 FAX: 0421 - 2479113

Date: 24.05.2017

#### TO WHOM-SO-EVER IT MAY CONCERN

This is to certify that **Ms. KAVIYA. P**, who is the student of Dr. N.G.P. Arts and Science College, Coimbatore, has successfully completed her internship with us at V.R. Exports, Tiruppur from 18.04.2017 to 28.04.2017.

During her Internship with us, we found her character and conduct was good.

We wish her the very best in her future endeavors.

For V.R. Exports

Mr. K.C. VENKATESWARAN

(Proprietor)



Website.www.vrexports.net, E-mail: info@vrexports.net
TIN No.33682388003 CST No.667902 Dt.28.08.06 IE CODE 3205008189



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Approved by Government of Tamil Nadu and Accredited by NAAC with 'A' Grade (2nd Cycle)

Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

NAAC
3rd Cycle

Criterion III Metric 3.7.1

CA. R. RAVICHANDRAN B.Sc. FCA. DISA

CHARTERED ACCOUNTANT



Date: 03-06-2013

To,

The Vice Principal,
Dr. N.G.P Arts and Science College,
Coimbatore.

Sir.

I hereby Certify that **Miss. V.LOGANAYAKI, II B.Com banking and Insurance** has underwent internship training in my office for the period from 18.05.2017 to 02.06.2017. During the internship period, she is very sincere. I wish her all success in her future endeavor.

CA.R.Ravichandran FCA
Chartered Accountant



20, Murungappalayam Extn., 3rd Street, Tirupur - 641 603.
Tel: 0421 - 2265605, 2249705, & 4336549 Mobile: 98940 55729 E-mail: ravichandranfca@gmail.com





(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

Approved by Government of Tamil Nadu and Accredited by NAAC with 'A' Grade (2<sup>nd</sup> Cycle)

Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

NAAC
3rd Cycle

Criterion III Metric 3.7.1

### **C897 Melravanthavadi PACCS**



From

The Secretary Melravanthavadi Chengam Tk. Tiruvannamalai Dt.

To

The principal Dr.NGP arts and science college Kallapatti Road Coimbatore-640148

> For C. 897. மேல்ராவந்தவாடி தொடக்க வேளாண்மை கூட்டுறவு கடன் சங்கம் லிட்.

Dear sir,

Reg: Training attended by the students of your institution.

This is certify that Ms. <u>MOHANA PRIYA.S</u> has attended the training in our branch from 08.05.2017 to 21.05.2017. The student is undergoing **B.Com(Banking and Insurance)**, course in your institution.

During the training the conduct and punctuality of the student was <u>Good</u> and they have learned the basics of banking, KYC norms, LOCKER modalities and various schemes of GOVT OF INDIA.

S. Sampath





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Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

NAAC 3<sup>rd</sup> Cycle

Criterion III Metric 3.7.1



- ADVISOR FOR SALES TAX
- CONSULTANT FOR E.S.I., P.F., INSPECTOR OF FACTORIES, ACCOUNTS,
- PROFESSIONAL TAX, POLLUTION CONTROL BOARD
- \* SERVICE TAX & S.S.I. REGISTRATION

3-A, PADMA SUGANYA COMPLEX, III° FLOOR, CO-OP COLONY ROAD, N.S.R. ROAD, K.K. PUDUR, COIMBATORE - 641 038. Phone: 0422-2440199+9198426-35705, +9198420-99755+9199427-9559, +9198429-99755E-mail: ksv.consultant@gmail.com

#### **TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Ms. B.Surya, D/o. S.Balasubramanian a student of B.com (Banking & Insurance) N.G.P Arts and Science College has successfully Completed 15 days internship program from 09.05.2017 to 23.05.2017 at this firm. During the period of this internship program she trained in the field of Cash book entries & E-filing Training in Sales Tax during that period she was found punctual.

We wish her every success in life.







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Approved by Government of Tamil Nadu and Accredited by NAAC with 'A' Grade (2nd Cycle)

Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

NAAC 3<sup>rd</sup> Cycle

Criterion III
Metric 3.7.1

TIN No.: 33272394388 CST No.: 1102349/ Dt 24-04-2012.

Cell: 9994537234 9791127895

# **GEO COLOURS**

Manufacturer & Supplier in ink and Allied Products

e-mail: geocolours12@gmail.com

31st MAY 2018

#### INDUSTRIAL EXPOSURE TRAINING

This is to certify that Mr. M. ANTONY XAVIER ABISHEK, (Roll No. 161CR003) B.Com (CS)(CA), 3rd Year, a student of Dr. NGP Arts and Science college, Kalapatti, Coimbatore has undergone industrial exposure training for the duration of 1 month with us in our company during May 2018.

For GEO/COLOURS





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**NAAC** 3rd Cycle

**Criterion III Metric 3.7.1** 

# Annamalai Capital Services (P) Ltd.

14, Arts College Road, Coimbatore - 641 018

Phone: +91 422 2211487, +91 422 2200945, +91 97509 21101

E-mail: helpdesk@annamalaicapital.com, Web: www.annamalaicapital.com



07/12/2018

#### TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr.D.Mohan Raj, III B.Com (CS) (CA), Dr.N.G.P.Arts and Science College Coimbatore has done a "Internship Training" in our Organization during 03.12.2018 to 07.12.2018. as a part of his curriculum.

During the period, his performance & character are highly commendable.

For Annamalai Capital Services (P) Ltd.,

(S.Chitra) Director

0

Services: **Equity Trading** Commodity Trading **Currency Trading** NRI Services IPO Mutual Fund







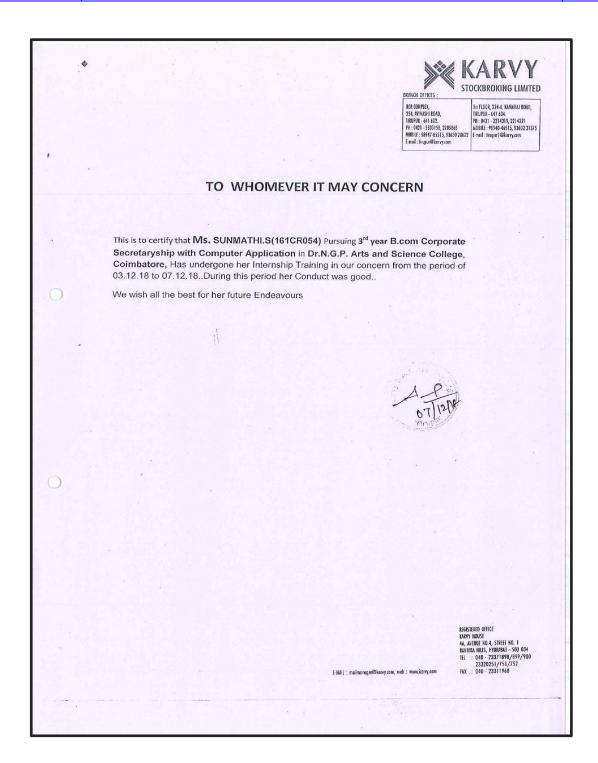
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Approved by Government of Tamil Nadu and Accredited by NAAC with 'A' Grade (2<sup>nd</sup> Cycle)

Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

NAAC 3<sup>rd</sup> Cycle







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Approved by Government of Tamil Nadu and Accredited by NAAC with 'A' Grade (2<sup>nd</sup> Cycle)

Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

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NAAC 3<sup>rd</sup> Cycle

Criterion III Metric 3.7.1



.0

#### SREEGURU GARMENTS

MFRS. OF KNITTED HOSIERY GARMENTS

#### CERTIFICATE

This is to certify that Miss. Vinuprabha.K (REG No.161CRO60) studying Bachelor degree in commerce in corporate secretaryship with computer applicationat Dr.N.G.P. Arts and Science College, Kalapatti, Coimbatore-641048 had undergone studies on internship program in Garments manufacturing & exporting in our concern for the period from 04<sup>th</sup> May 2018 to 03<sup>rd</sup> June 2018. During the training periods her performance was good.

PLACE: Erode

DATE: 24.09.2018



For SREEGURU GARMENTS

Proprietor

#3/144-1, NALLAKATTIPALAYAM, OLALAKOVIL (PO) MALAYAPPALAYAM, ERODE (Dt) - 638 460 TEL: 04285-259099 | MOB: 90033 64382, 99428 29511 | E-mail: sreegurudci@gmail.com GSTIN No. 33DFZPK4261Q1ZI |





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Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

NAAC
3rd Cycle

Criterion III Metric 3.7.1



0

#### SREEGURU GARMENTS

MFRS. OF KNITTED HOSIERY GARMENTS

#### CERTIFICATE

This is to certify that Miss. Abinaya.G(REG No.161CROO1) studying Bachelor degree in commerce in corporate secretaryship with computer application at Dr.N.G.P. Arts and Science College, Kalapatti, Coimbatore-641048 had undergone studies on internship program in Garments manufacturing & exporting in our concern for the period from 04<sup>th</sup> May 2018 to 03<sup>rd</sup> June 2018. During the training periods her performance was good.

PLACE: Erode

DATE: 24.09.2018



For SREEGURU GARMENTS

Proprietor

#3/144-1, NALLAKATTIPALAYAM, OLALAKOVIL (PO) MALAYAPPALAYAM, ERODE (Dt) - 638 460 TEL: 04285-259099 | MOB: 90033 64382, 99428 29511 | E-mail: sreegurudci@gmail.com GSTIN No. 33DFZPK4261Q1ZI |





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Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

NAAC 3<sup>rd</sup> Cycle

Criterion III Metric 3.7.1

TIN No.: 33272394388 CST No.: 1102349/ Dt 24-04-2012.

Cell: 9994537234 9791127895

# **GEO COLOURS**

Manufacturer & Supplier in ink and Allied Products
e-mail: geocolours12@gmail.com

31st MAY 2018

#### INDUSTRIAL EXPOSURE TRAINING

This is to certify that Mr. M. ANTONY XAVIER ABISHEK, (Roll No. 161CR003) B.Com (CS)(CA), 3rd Year, a student of Dr. NGP Arts and Science college, Kalapatti, Coimbatore has undergone industrial exposure training for the duration of 1 month with us in our company during May 2018.

For GEO/COLOURS
Proprietor





0

### Dr. N.G.P. ARTS AND SCIENCE COLLEGE

(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

Approved by Government of Tamil Nadu and Accredited by NAAC with 'A' Grade (2<sup>nd</sup> Cycle)

Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

NAAC 3<sup>rd</sup> Cycle

Criterion III Metric 3.7.1

TIN No.: 33272394388 CST No.: 1102349/ Dt 24-04-2012.

Cell: 9994537234 9791127895

# **GEO COLOURS**

Manufacturer & Supplier in ink and Allied Products
e-mail: geocolours12@gmail.com

31st MAY 2018

#### INDUSTRIAL EXPOSURE TRAINING

This is to certify that Mr. K.S. HARSATH ABINAV, (RollNo. 161CR018) B.Com (CS)(CA), 3<sup>rd</sup> Year, a student of Dr. NGP Arts and Science college, Kalapatti, Coimbatore has undergone industrial exposure training for the duration of 1 month with us in our company during May 2018.







(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

Approved by Government of Tamil Nadu and Accredited by NAAC with 'A' Grade (2nd Cycle)

Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

NAAC
3rd Cycle

Criterion III Metric 3.7.1

TIN No.: 33272394388 CST No.: 1102349/ Dt 24-04-2012.

Cell: 9994537234 9791127895

# **GEO COLOURS**

Manufacturer & Supplier in ink and Allied Products
e-mail: geocolours12@gmail.com

31st MAY 2018

#### INDUSTRIAL EXPOSURE TRAINING

This is to certify that Ms. S. JEEVITHA, (Roll No. 161CR021) B.Com (CS)(CA), 3<sup>rd</sup> Year, a student of Dr. NGP Arts and Science college, Kalapatti, Coimbatore has undergone industrial exposure training for the duration of 1 month with us in our company during May 2018.

Proprietor





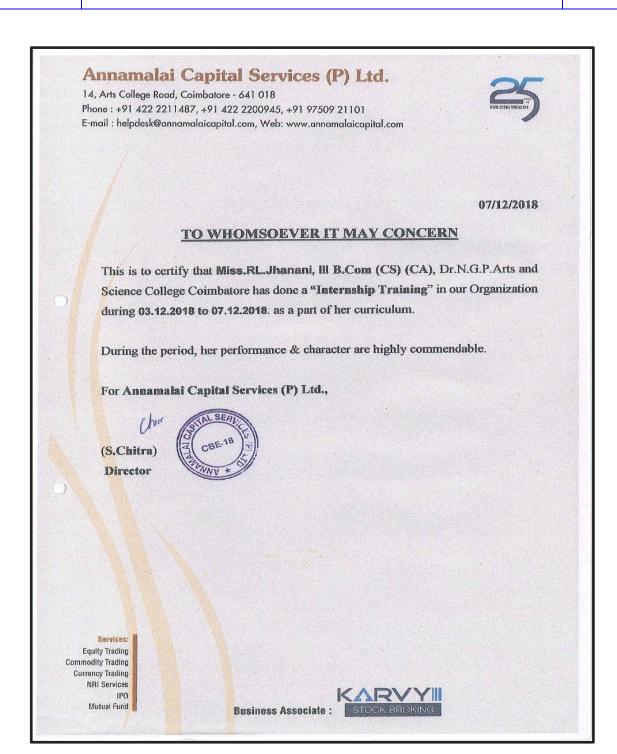
(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

Approved by Government of Tamil Nadu and Accredited by NAAC with 'A' Grade (2<sup>nd</sup> Cycle)

Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

NAAC
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Approved by Government of Tamil Nadu and Accredited by NAAC with 'A' Grade (2<sup>nd</sup> Cycle)

Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

NAAC
3rd Cycle

Criterion III Metric 3.7.1

# Annamalai Capital Services (P) Ltd.

14, Arts College Road, Coimbatore - 641 018

Phone: +91 422 2211487, +91 422 2200945, +91 97509 21101

E-mail: helpdesk@annamalaicapital.com, Web: www.annamalaicapital.com



07/12/2018

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr.D.Mohan Raj, III B.Com (CS) (CA), Dr.N.G.P.Arts and Science College Coimbatore has done a "Internship Training" in our Organization during 03.12.2018 to 07.12.2018. as a part of his curriculum.

During the period, his performance & character are highly commendable.

For Annamalai Capital Services (P) Ltd.,

(S.Chitra)

Services: Equity Trading Commodity Trading Currency Trading NRI Services IPO Mutual Fund

0

Business Associate :







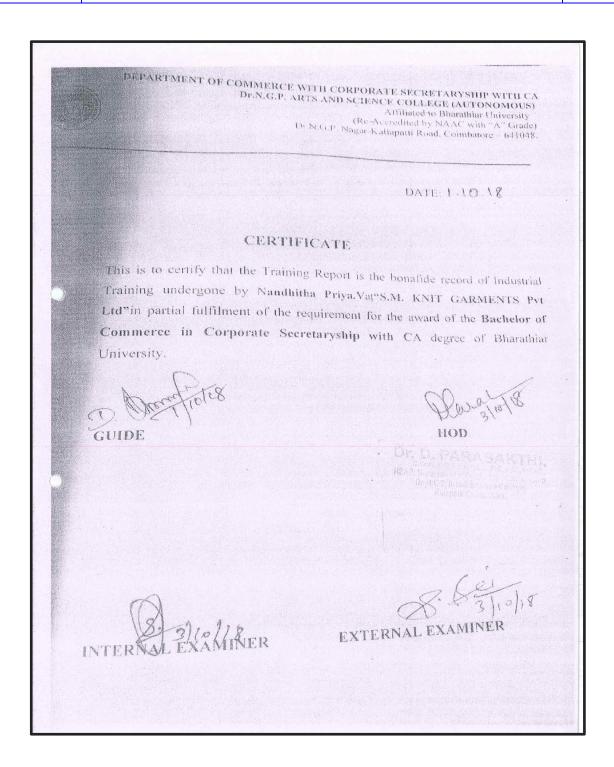
(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

Approved by Government of Tamil Nadu and Accredited by NAAC with 'A' Grade (2nd Cycle)

Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

NAAC 3<sup>rd</sup> Cycle





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**NAAC** 3rd Cycle

**Criterion III Metric 3.7.1** 



#### SREEGURU GARMENTS

MFRS. OF KNITTED HOSIERY GARMENTS

#### CERTIFICATE

This is to certify that Miss. Sathya.S (REG No.161CRO48) studying Bachelor degree in commerce in corporate secretaryship with computer application at Dr.N.G.P. Arts and Science College, Kalapatti, Coimbatore-641048 had undergone studies on internship program in Garments manufacturing & exporting in our concern for the period from 04th May 2018 to 03rd June 2018. During the training periods her performance was good.

PLACE: Erode

DATE: 24.09.2018



For SREEGURU GARMENTS

V. 52 3511

Proprietor

#3/144-1, NALLAKATTIPALAYAM, OLALAKOVIL (PO) MALAYAPPALAYAM, ERODE (Dt) - 638 460 TEL: 04285-259099 | MOB: 90033 64382, 99428 29511 | E-mail: sreegurudci@gmail.com GSTIN No. 33DFZPK4261Q1ZI |



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(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore) Approved by Government of Tamil Nadu and Accredited by NAAC with 'A' Grade (2nd Cycle) Dr. N.G.P. - Kalapatti Road, Coimbatore-641048, Tamil Nadu, India Web: www.drngpasc.ac.in | Email: info@drngpasc.ac.in | Phone: +91-422-2369100

**NAAC** 3rd Cycle

**Criterion III Metric 3.7.1** 

### Annamalai Capital Services (P) Ltd.

1.d, Arts College Road. Coimbatore - 641 018 Phone: +914222211487, +914222200945, +919750921101 E-mail:hedesk@annamalalcapital.com,Web·www.annamalaicapItal.com



07/12/2018

#### TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr.G.SARAVANAN, III B.Com (CS) (CA). Dr.N.G.P arts and Science College Coimbatore has done an "Internship Training" in our Organization during 03.12.2018 to 07.12.2018. As a part of his curriculum.

During the period, his performance & character are highly commendable.

For Annamalai Capital Services (P) Ltd.,

Chin

(S.Chitra)

Director



Equ1tyrrad1 g Cull Imod'll T1 11J Currenly Trading URISer 11e5 Mut111Jlry u







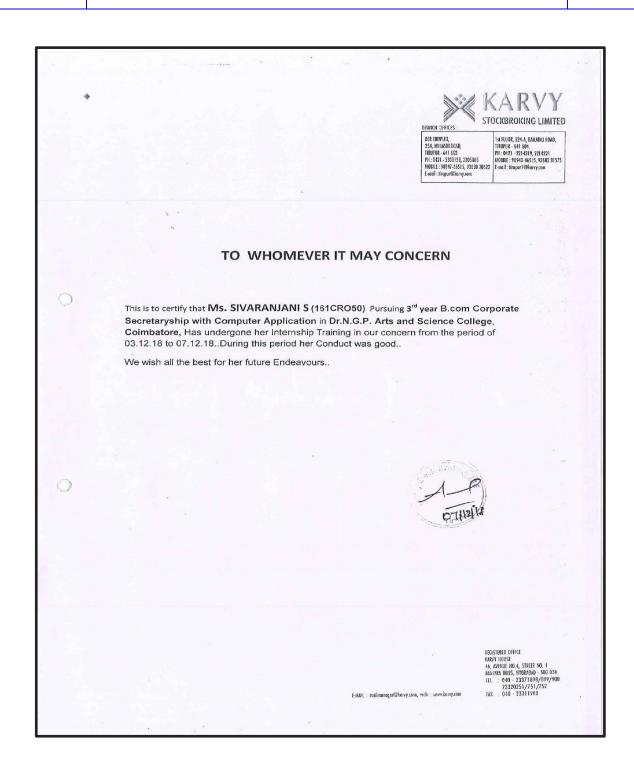
(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

Approved by Government of Tamil Nadu and Accredited by NAAC with 'A' Grade (2nd Cycle)

Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

NAAC
3rd Cycle





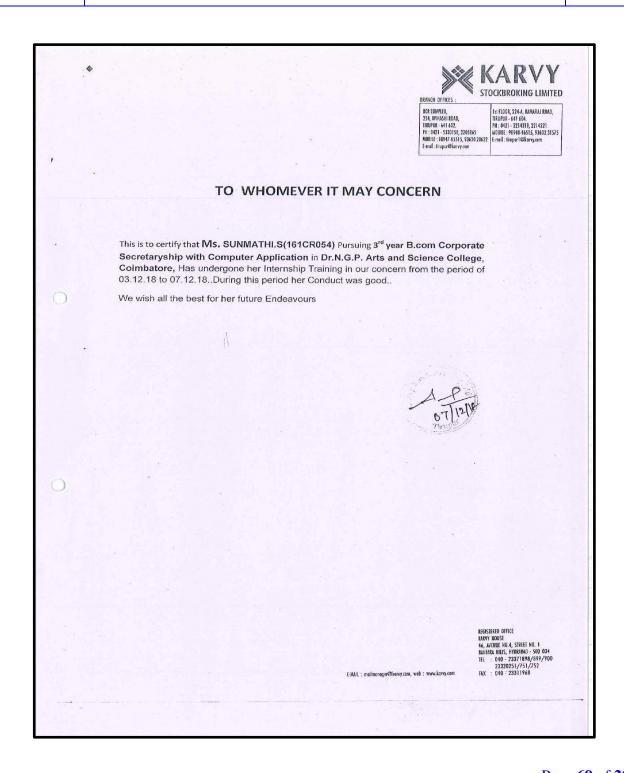
(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

Approved by Government of Tamil Nadu and Accredited by NAAC with 'A' Grade (2<sup>nd</sup> Cycle)

Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

NAAC
3rd Cycle







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Approved by Government of Tamil Nadu and Accredited by NAAC with 'A' Grade (2<sup>nd</sup> Cycle)

Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

NAAC 3<sup>rd</sup> Cycle

Criterion III Metric 3.7.1

## Annamalai Capital Services (P) Ltd.

1.d,Arts College Road,Coimbatore - 641 018
Phone:+91 4222211487,+91 4222200945,+91 9750921101
E-mail :helpdesk@annamalaicapital.com,Web: www annamalai capital.com



07/12/2018

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. B. SURESH KUMAR, III B.Com (CS) (CA), Dr.N.G.P.Arts and Science College Coimbatore has done a "Internship Training" inour Organization during 03.12.2018 to 07.12.2018. as a part of his curriculum.

During the period, his performance & character are highly commendable.

For Annamalai Capital Services (P) Ltd.,

Chir

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(S.Chitra) Director



Seritces.
Equily mading
Commodifi Trading
Currenty Trading
IJRI Serimos
IFO
Mutual Forp

KARVY III

Business Associate: STOCK BROKING

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(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

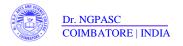
Approved by Government of Tamil Nadu and Accredited by NAAC with 'A' Grade (2<sup>nd</sup> Cycle)

Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

NAAC 3<sup>rd</sup> Cycle







(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

Approved by Government of Tamil Nadu and Accredited by NAAC with 'A' Grade (2<sup>nd</sup> Cycle)

Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

NAAC 3<sup>rd</sup> Cycle

Criterion III Metric 3.7.1

### Annamalai Capital Services (P) Ltd.

14, Arts College Road, Coimbatore - 641 018

Phone: +91 422 2211487, +91 422 2200945, +91 97509 21101

E-mail: helpdesk@annamalaicapital.com, Web: www.annamalaicapital.com



07/12/2018

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr.G.T.Vijay, III B.Com (CS) (CA), Dr.N.G.P.Arts and Science College Coimbatore has done a "Internship Training" in our Organization during 03.12.2018 to 07.12.2018. as a part of his curriculum.

During the period, his performance & character are highly commendable.

For Annamalai Capital Services (P) Ltd.,

(S.Chitra)
Director



Services: Equity Trading Commodity Trading Currency Trading NRI Services IPO Mutual Fund

Business Associate: STOCK







(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

Approved by Government of Tamil Nadu and Accredited by NAAC with 'A' Grade (2<sup>nd</sup> Cycle)

Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

NAAC 3<sup>rd</sup> Cycle

Criterion III
Metric 3.7.1



#### SREEGURU GARMENTS

MFRS. OF KNITTED HOSIERY GARMENTS

#### CERTIFICATE

This is to certify that Miss. Vinuprabha.K (REG No.161CRO60) studying Bachelor degree in commerce in corporate secretaryship with computer applicationat Dr.N.G.P. Arts and Science College, Kalapatti, Coimbatore-641048 had undergone studies on internship program in Garments manufacturing & exporting in our concern for the period from 04<sup>th</sup> May 2018 to 03<sup>rd</sup> June 2018. During the training periods her performance was good.

PLACE: Erode

DATE: 24.09.2018



For SREEGURU GARMENTS

**Proprietor** 

#3/144-1, NALLAKATTIPALAYAM, OLALAKOVIL (PO) MALAYAPPALAYAM, ERODE (Dt) - 638 460
TEL: 04285-259099 | MOB: 90033 64382, 99428 29511 | E-mail: sreegurudci@gmail.com
GSTIN No. 33DFZPK4261Q1ZI |





(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

Approved by Government of Tamil Nadu and Accredited by NAAC with 'A' Grade (2<sup>nd</sup> Cycle)

Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

NAAC
3rd Cycle

Criterion III Metric 3.7.1



0

0

#### SREEGURU GARMENTS

MFRS. OF KNITTED HOSIERY GARMENTS

#### CERTIFICATE

This is to certify that Miss. Dharani.R (REG No.161CRO61) studying Bachelor degree in commerce in corporate secretaryship with computer application at Dr.N.G.P. Arts and Science College, Kalapatti, Coimbatore-641048 had undergone studies on internship program in Garments manufacturing & exporting in our concern for the period from 04<sup>th</sup> May 2018 to 03<sup>rd</sup> June 2018. During the training periods her performance was good.

PLACE: Erode

DATE: 24.09.2018



For SREEGURU GARMENTS

Proprietor

#3/144-1, NALLAKATTIPALAYAM, OLALAKOVIL (PO) MALAYAPPALAYAM, ERODE (Dt) - 638 460 TEL: 04285-259099 | MOB: 90033 64382, 99428 29511 | E-mail: sreegurudci@gmail.com GSTIN No. 33DFZPK4261Q1ZI |





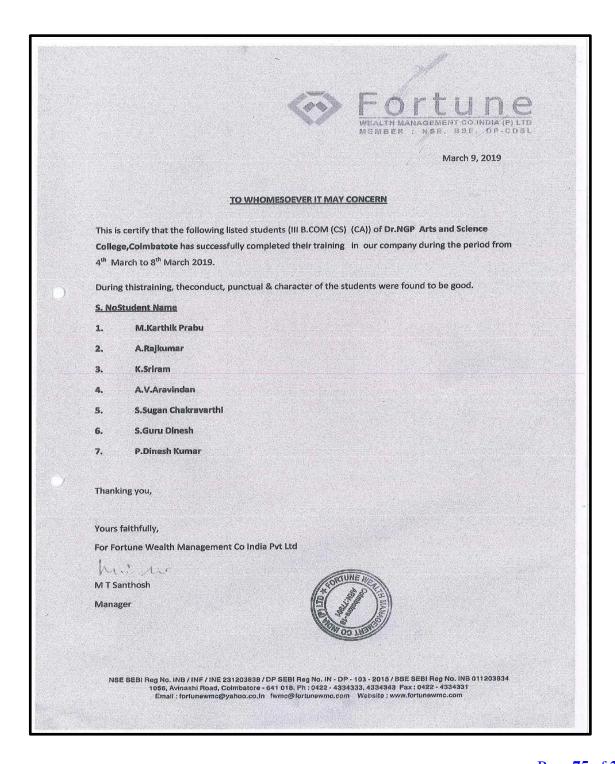
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Approved by Government of Tamil Nadu and Accredited by NAAC with 'A' Grade (2<sup>nd</sup> Cycle)

Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

NAAC 3<sup>rd</sup> Cycle







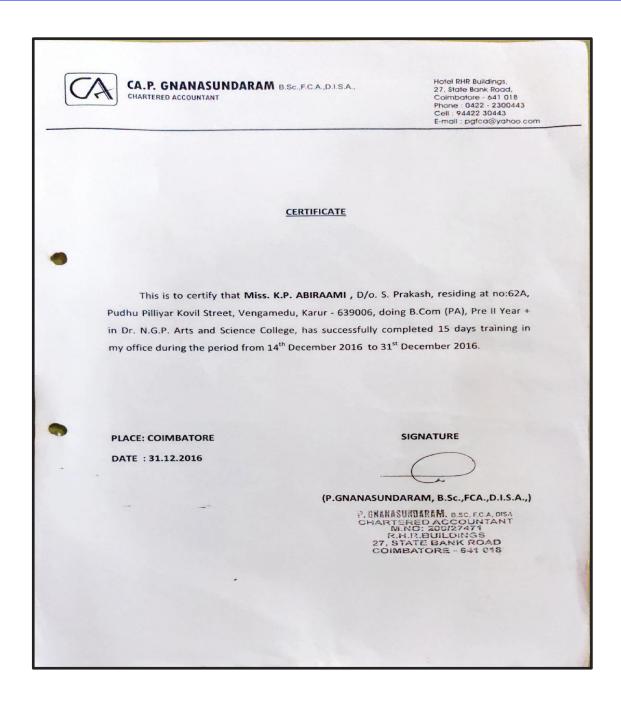
(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

Approved by Government of Tamil Nadu and Accredited by NAAC with 'A' Grade (2<sup>nd</sup> Cycle)

Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

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NAAC 3<sup>rd</sup> Cycle







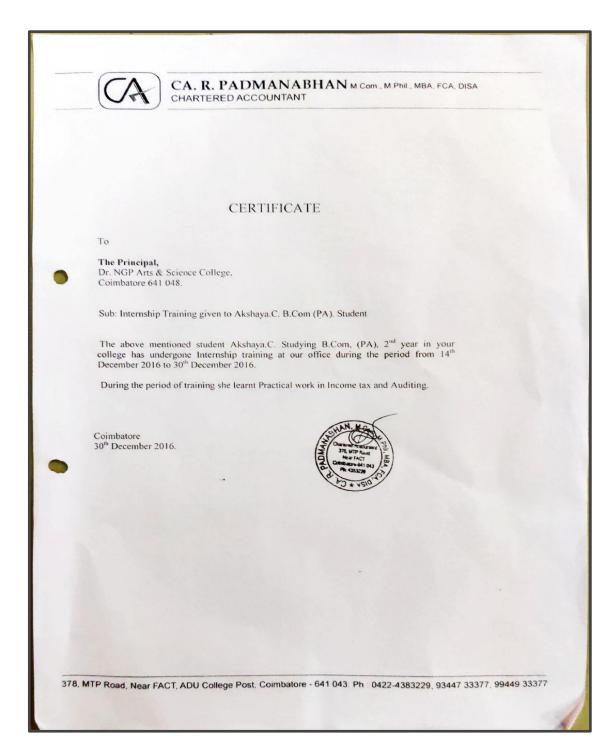
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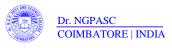
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Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

NAAC 3<sup>rd</sup> Cycle







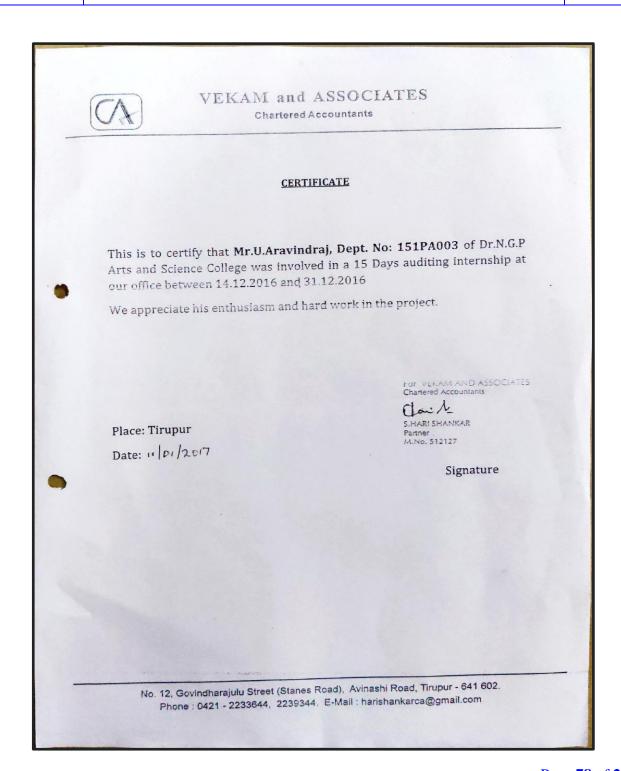
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Approved by Government of Tamil Nadu and Accredited by NAAC with 'A' Grade (2<sup>nd</sup> Cycle)

Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

NAAC 3<sup>rd</sup> Cycle





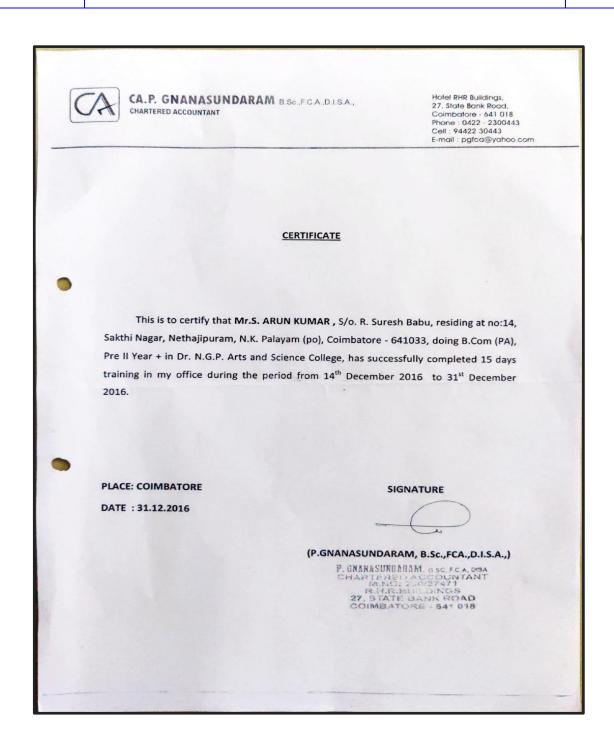
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Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

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NAAC
3rd Cycle







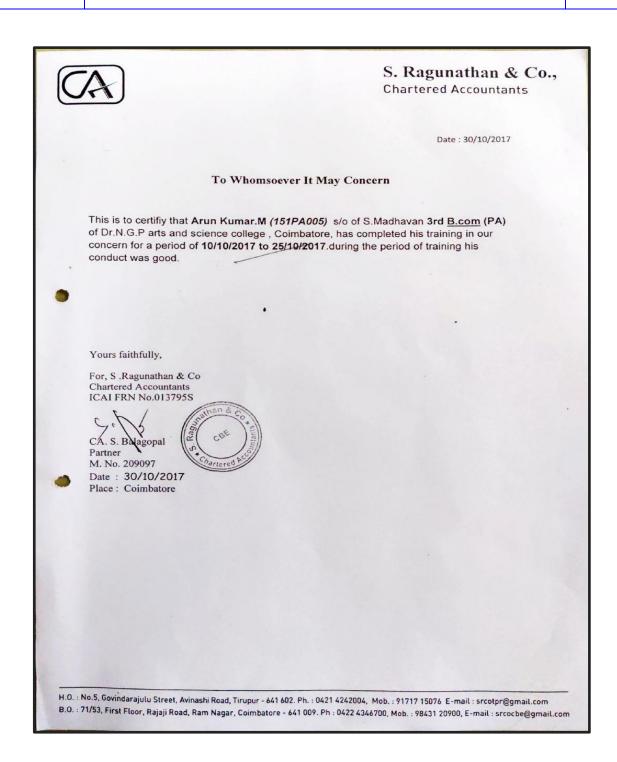
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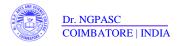
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Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

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NAAC
3rd Cycle







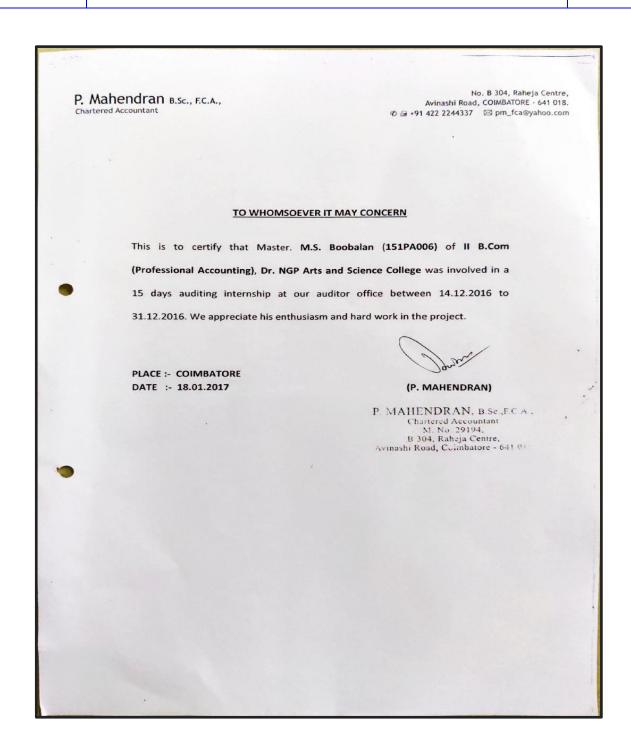
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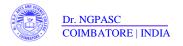
Approved by Government of Tamil Nadu and Accredited by NAAC with 'A' Grade (2<sup>nd</sup> Cycle)

Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

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NAAC
3rd Cycle







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Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

NAAC 3<sup>rd</sup> Cycle

Criterion III Metric 3.7.1

No. B 304, Raheja Centre, P. Mahendran B.Sc., F.C.A., Avinashi Road, COIMBATORE - 641 018. Chartered Accountant ② 

☐ +91 422 2244337 

☐ pm\_fca@yahoo.com TO WHOMSOEVER IT MAY CONCERN This is to certify that Master. X. Daniel Arul Leo (151PA008) of II B.Com (Professional Accounting), Dr. NGP Arts and Science College was involved in a 15 days auditing internship at our auditor office between 14.12.2016 to 31.12.2016. We appreciate his enthusiasm and hard work in the project. PLACE :- COIMBATORE DATE :- 18.01.2017 (P. MAHENDRAN) P. MAHENDRAN. Chartered Account of M. No. 29194, B 304, Rahaja Centre, Avinashi Road, Combatore - 641 U





(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

Approved by Government of Tamil Nadu and Accredited by NAAC with 'A' Grade (2<sup>nd</sup> Cycle)

Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

NAAC 3<sup>rd</sup> Cycle

Criterion III Metric 3.7.1



CA. K. SEKAR B.com.,FCA., Chartered Accountant Membership No.: 206117 As sekarauditor@yahoo.co.in Room #14, First Floor, Karpagam Complex, 133, NSR Road, Saibaba Colony, Coimbatore - 641 011.

0422 450 4024

0948 611 4024

Date: 31st Dec' 2016

To

Head of the Department, Department of Commerce (P.A), Dr. N.G.P. College of Arts and Science,

Coimbatore-641048.

Certificate of Training

I hereby Certify that Miss. V. Dharanya, D/o. P. Varatharaj, residing at 5, Bharathi Nagar, Kamaraj Road, Singanallur, Coimbatore-641015, and doing 2nd Year B.Com (PA) in your college, underwent training in my office from 14<sup>th</sup> Dec 2016 till 31<sup>st</sup> Dec 2016.

She was given training in the following areas:

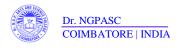
- Basis of Income Tax, Advance Tax, Filing of Income Tax Returns.
- Heads of Income under Income Tax and Types of Assessees.
- Depreciation- Straight Line and Written Down Value Methods.
- Verification of VAT audit report.
- Registration of PAN in Income Tax Website.
- Accounting entries in Tally ERP9.

During the Training Period, She showed immense interest in learning new things and was always attentive.

I wish here all success.



Chartered Accountant





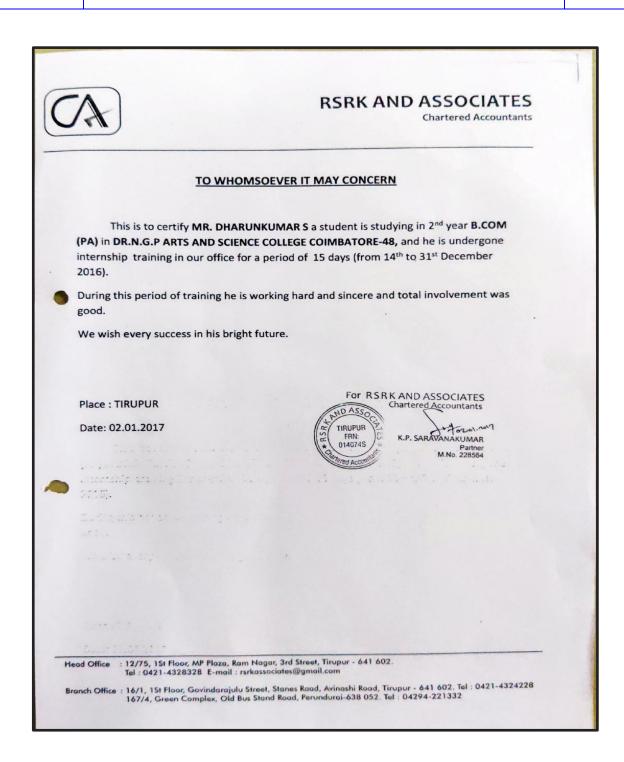
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Approved by Government of Tamil Nadu and Accredited by NAAC with 'A' Grade (2<sup>nd</sup> Cycle)

Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

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Criterion III Metric 3.7.1



CA. T.NAGARAJU B.COM., F.C.A., CHARTERED ACCOUNTANT

MEMBERSHIP NO : 200 - 29312

New No.14 Kondasamy Layout, Near Masakalipalayam Road, Peelamedu,COIMBATORE – 641004. Phone: 0422 - 2573746. Cell: 98422 59058, 98424 68206. E.Mail: canagarajut@gmail.com

Ref: 28/ cof/2016-17

DATE: 31/12/2016

#### TO WHOMSOEVER IT MAY CONCERN

This is to certify that **G. Dinesh Kumar** S/O C. Gurusamy, **II year B.com** (**PA**) of Dr. N.G.P Arts and science collage, Coimbatore (**Roll No: 151pa012**) has completed his internship training in our concern for a period from 14.12.2016 to 31.12.2016. During the period of training his conduct was good.

Place: Coimbatore

Date: 31.12.2016

T. NAGARAJU, B.Com., F.C.A., Membership.No: 200-29312 Chartered Accountant New No: 14, Kondasamy Lay-out Peelamedu, Coimbatore-641 004.





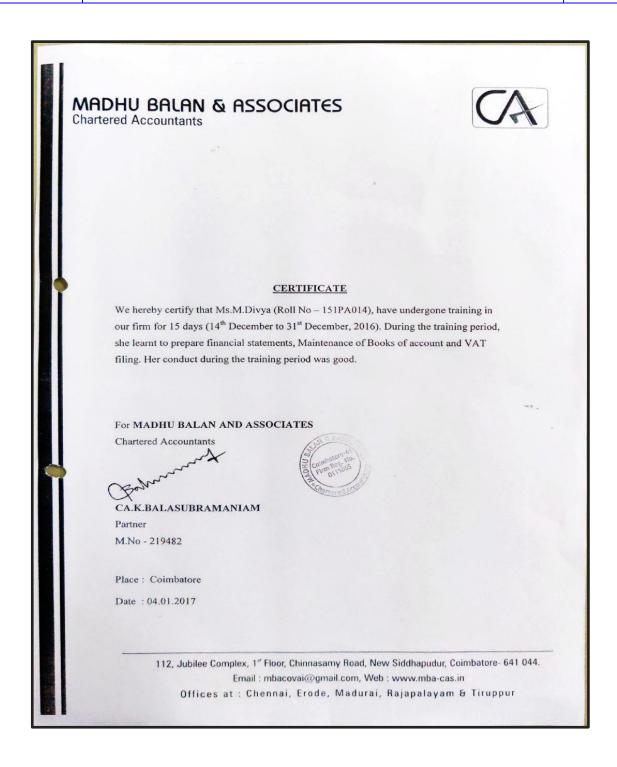
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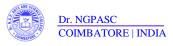
Approved by Government of Tamil Nadu and Accredited by NAAC with 'A' Grade (2<sup>nd</sup> Cycle)

Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

NAAC 3<sup>rd</sup> Cycle







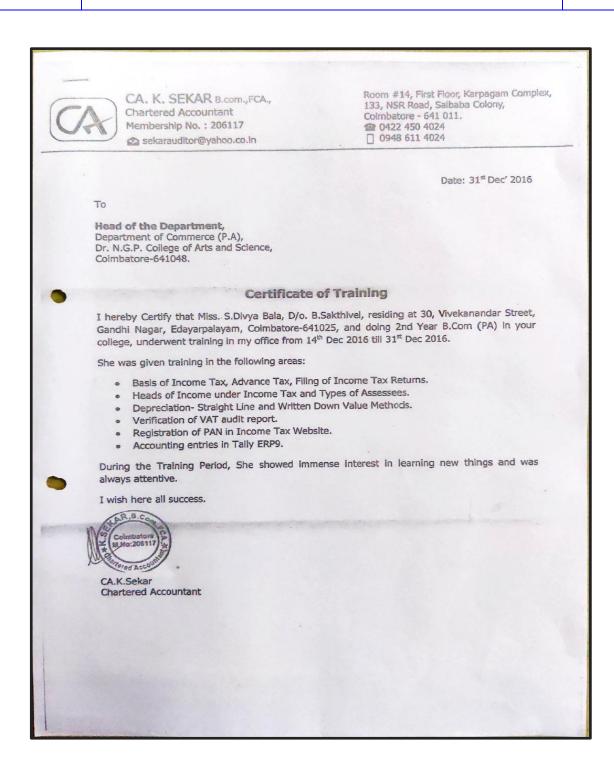
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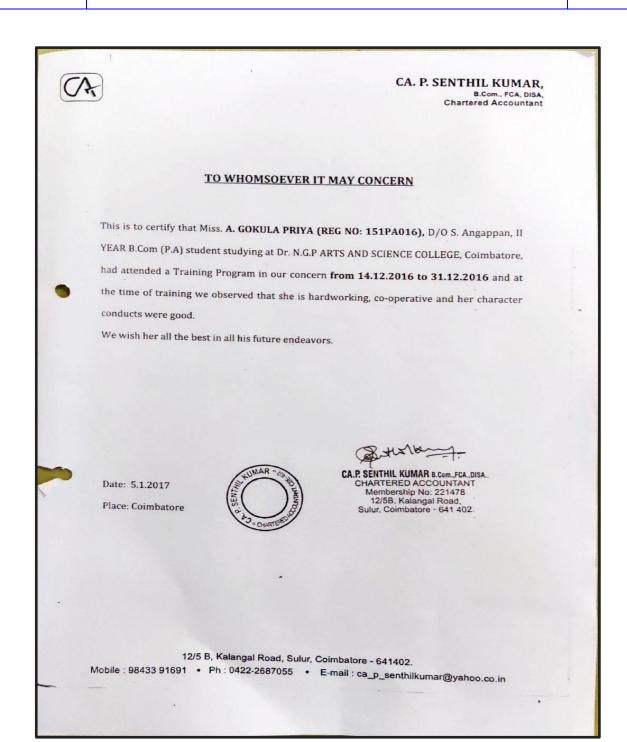
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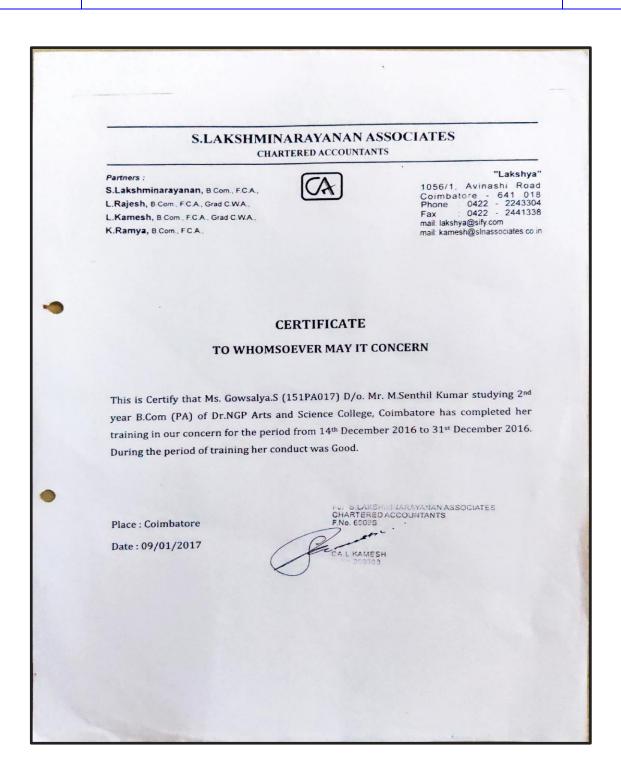
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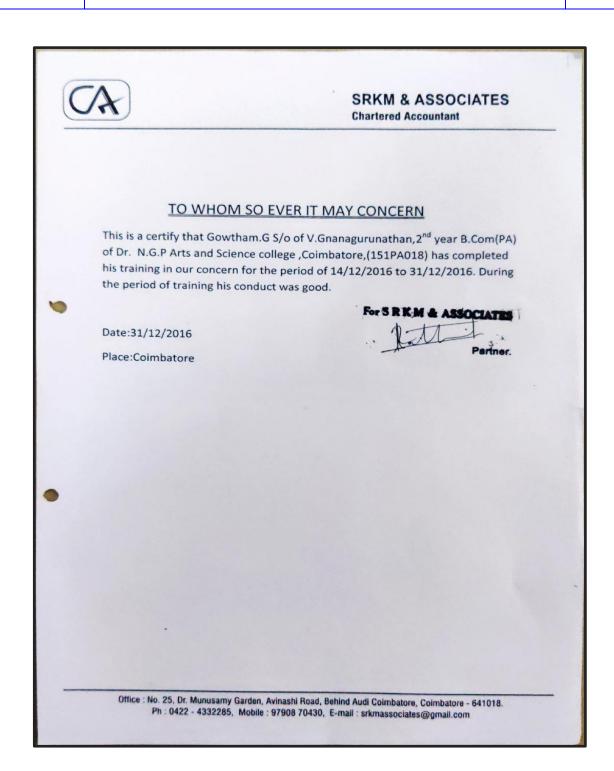
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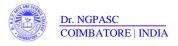
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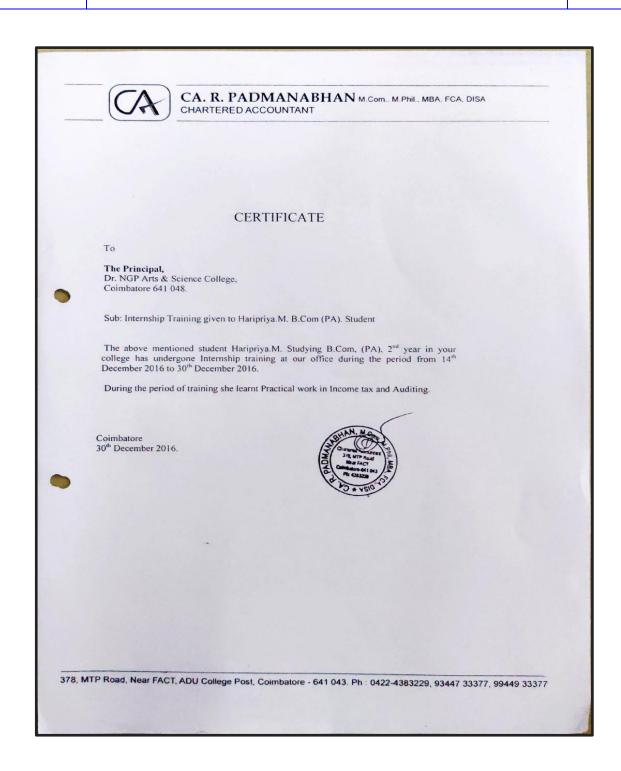
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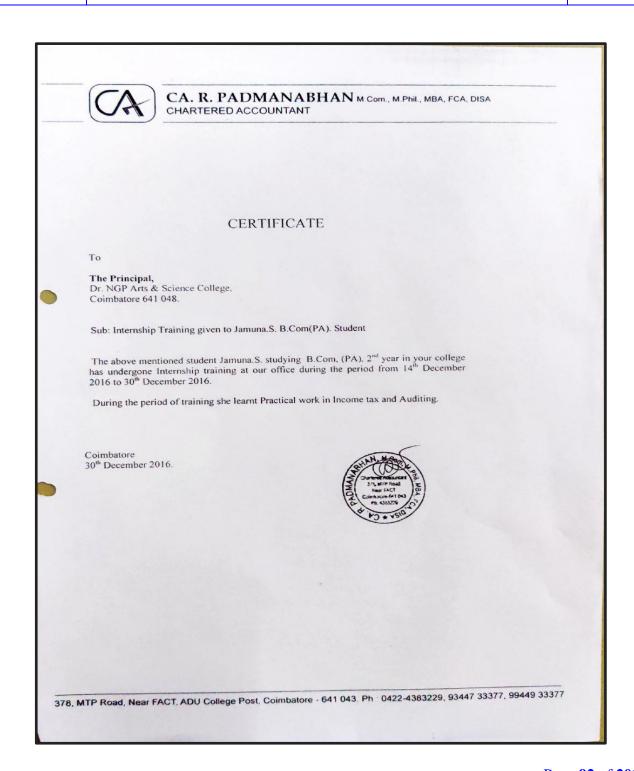
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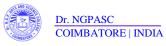
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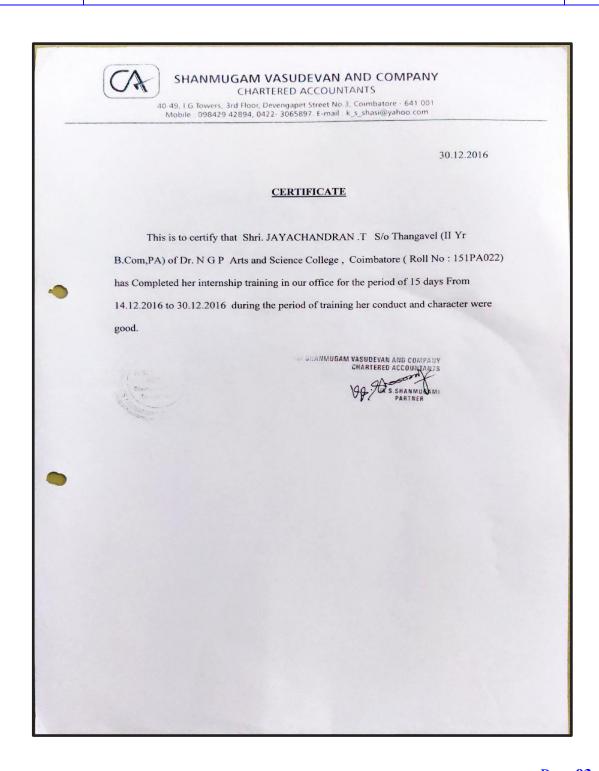
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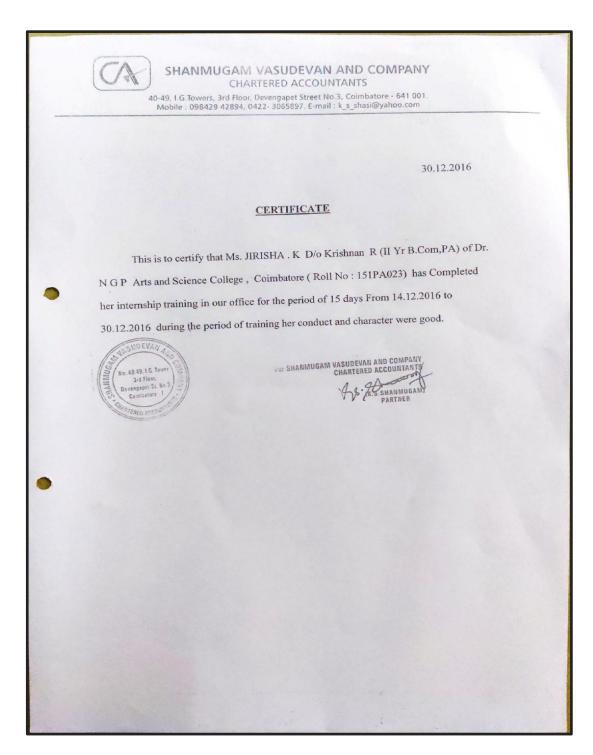
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NAAC 3<sup>rd</sup> Cycle

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0422 - 2480373 0422 - 2491367 99430 - 15567 94438 - 21592

E-mail: sannamalaifca@gmail.com

131, Dr.Radhakrishnan Road, Near Karnataka Association Buildings, Tatabad, Coimbatore-641 012

#### ON-THE-JOB TRAINING CERTIFICATE

This is to certify that Miss. M.KARTHIKA (15IPA024), Student of II B.COM

(Professional Accounting) of Dr.N.G.P. Arts and Science College,
Colimbatore has been provided on-the-job training at our office for the period
from 21.12.2016 to 31.12.2016 (8 Days) in the field of TAX PROCEDURE
AND PRACTICE during her holidays. She has completed the training to our
satisfaction.

For S ANNAMALAI & CO...

s. Amanalal
Partner

Place : Coimbatore Date : 30.01.2017 S. ANNAMALAI CHARTERED ACCOUNTANT

S ANNAMALAI & CO., Chartered Accountants 131. Dr. Radhakrishnan Road. Near Karnataka Association Buildings Tatabad, Colmbatore - 641 012. FRN: 000940S





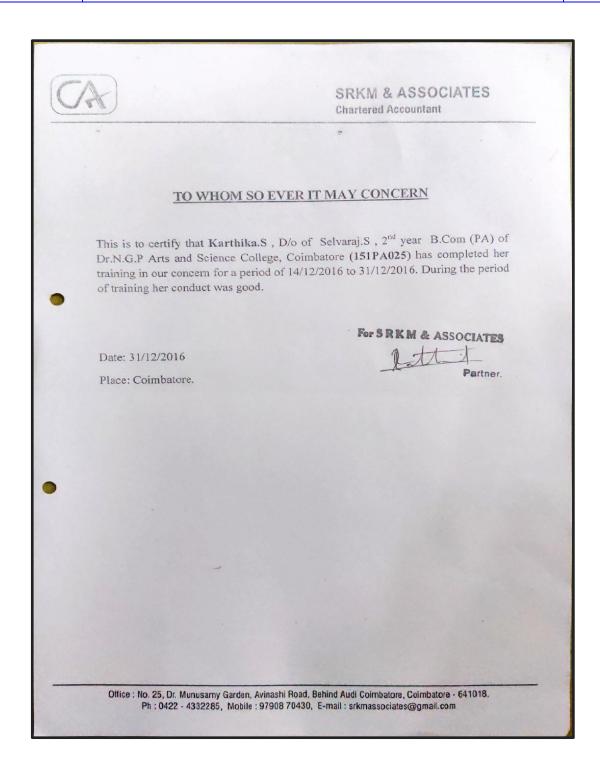
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Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

NAAC 3<sup>rd</sup> Cycle







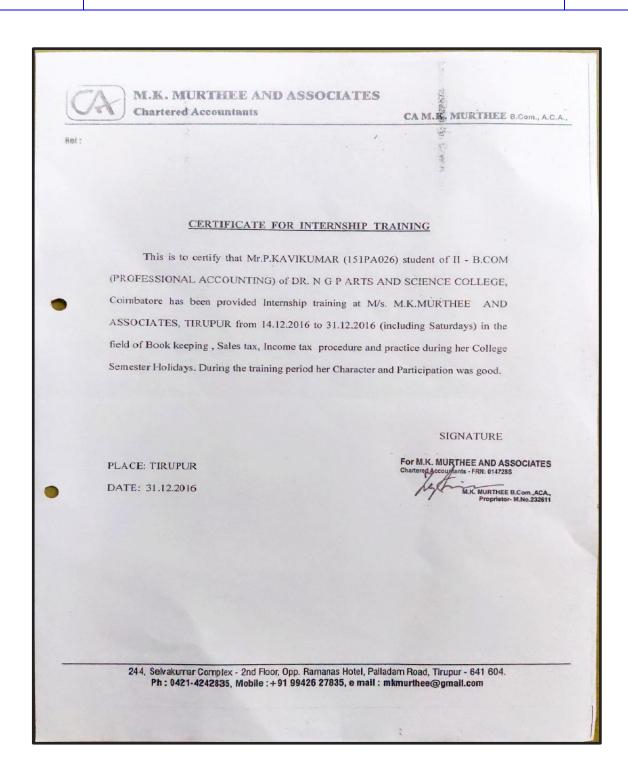
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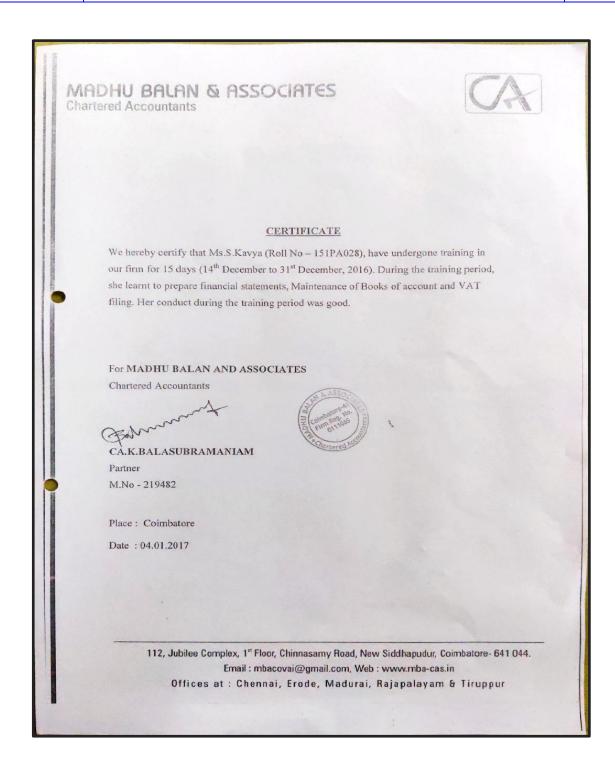
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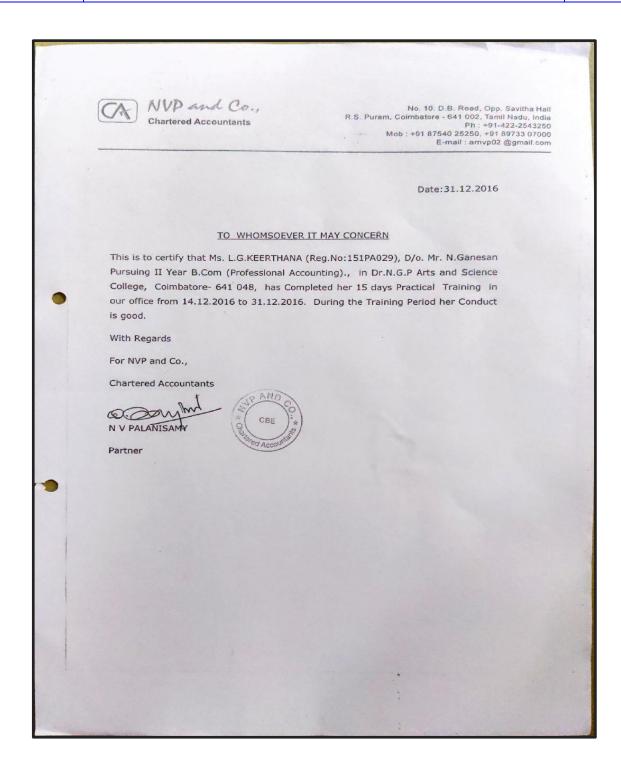
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Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

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Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

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E-mail: sannamalaifca@gmail.com

131, Dr.Radhakrishnan Road, Near Karnataka Association Buildings, Tatabad, Coimbatore-641 012

#### ON-THE-JOB TRAINING CERTIFICATE

This is to certify that Miss. M.KIRUBA (15IPA031), Student of II B.COM (Professional Accounting) of Dr.N.G.P. Arts and Science College, Coimbatore has been provided on-the-job training at our office for the period from 14.12.2016 to 31.12.2016 (11 Days) in the field of TAX PROCEDURE AND PRACTICE during her holidays. She has completed the training to our satisfaction.

For S ANNAMALAI & CO.,

Partner.

Place: Coimbatore Date: 28.02.2017 S. ANNAMALAI CHARTERED ACCOUNTANT

S ANNAMALAI & CO.,

Chartered Accountants
131, Dr. Radhakrishnan Road,
Near Karnataka Association Buildings
Tatabad, Coimbatore - 641 012,
FRN: 008940S





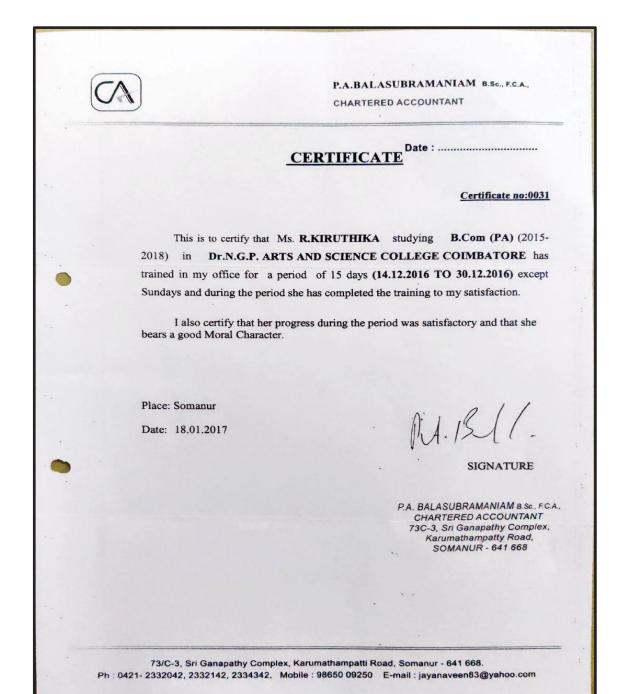
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Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

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Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

NAAC 3<sup>rd</sup> Cycle

Criterion III Metric 3.7.1



#### **SRKM & ASSOCIATES**

**Chartered Accountant** 

### TO WHOM SO EVER IT MAY CONCERN

This is to certify that Madhunisha.G, D/o of Govindaraj. N,  $2^{nd}$  year B.Com (PA) of Dr.N.G.P Arts and Science College, Coimbatore (151PA033) has completed her training in our concern for a period of 14/12/2016 to 31/12/2016. During the period of training her conduct was good.

Date: 31/12/2016

Place: Coimbatore.

For S R K M & ASSOCIATES

Partner.

Office: No. 25, Dr. Munusamy Garden, Avinashi Road, Behind Audi Coimbatore, Coimbatore - 641018.

Ph: 0422 - 4332285, Mobile: 97908 70430, E-mail: srkmassociates@gmail.com





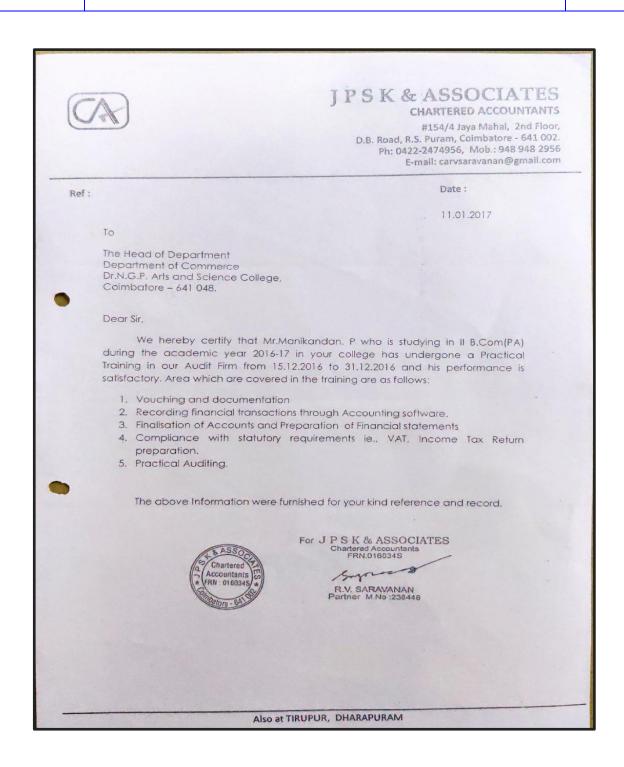
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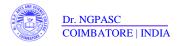
Approved by Government of Tamil Nadu and Accredited by NAAC with 'A' Grade (2nd Cycle)

Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

NAAC 3<sup>rd</sup> Cycle







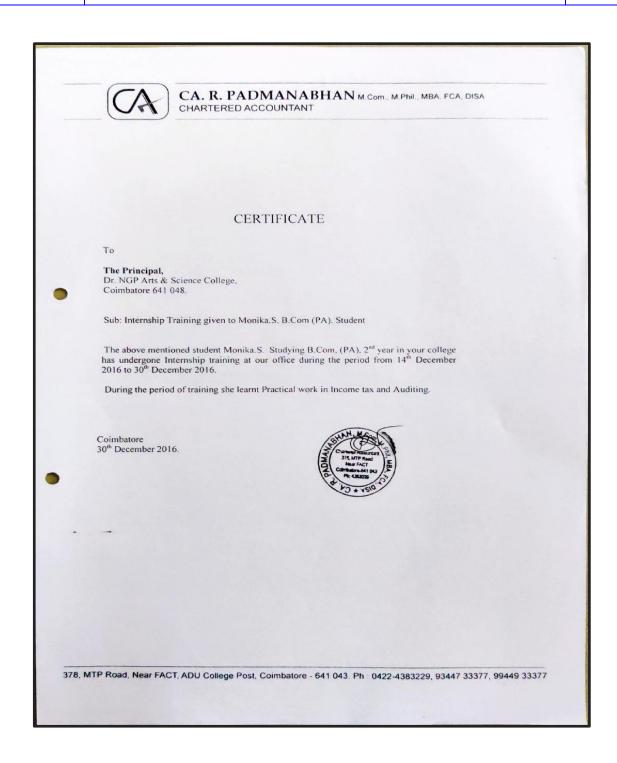
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Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

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NAAC
3rd Cycle

Criterion III Metric 3.7.1



P.A.BALASUBRAMANIAM B.Sc., F.C.A.,
CHARTERED ACCOUNTANT

Date : .....

#### CERTIFICATE

#### Certificate no:0030

This is to certify that Mr. M.MUTHUKUMAR studying B.Com (PA) (2015-2018) in Dr.N.G.P. ARTS AND SCIENCE COLLEGE COIMBATORE has trained in my office for a period of 15 days (14.12.2016 TO 30.12.2016) except Sundays and during the period he has completed the training to my satisfaction.

I also certify that her progress during the period was satisfactory and that he bears a good Moral Character.

Place: Somanur

Date: 18.01.2017

SIGNATURE

P.A. BALASUBRAMANIAM B.Sc., F.C.A., CHARTERED ACCOUNTANT 73C-3, Sri Ganapathy Complex, Karumathampatty Road, SOMANUR - 641 668





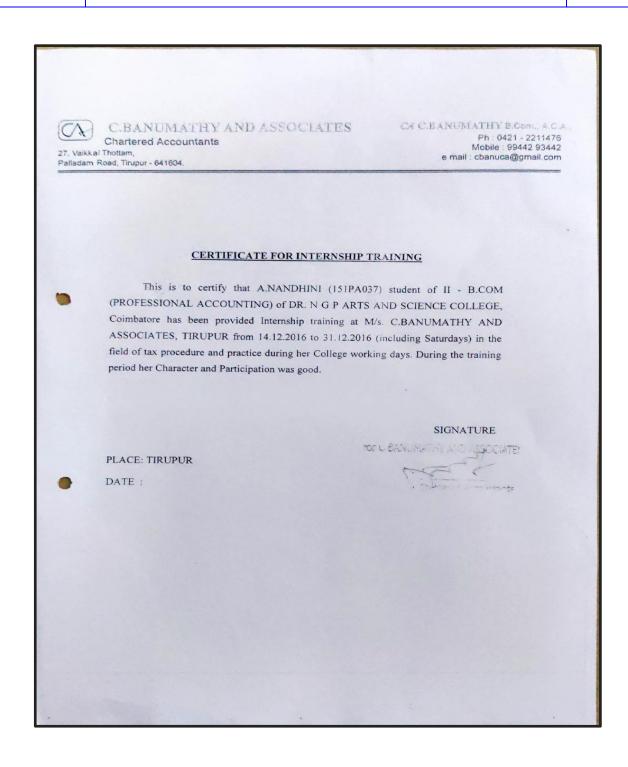
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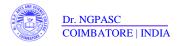
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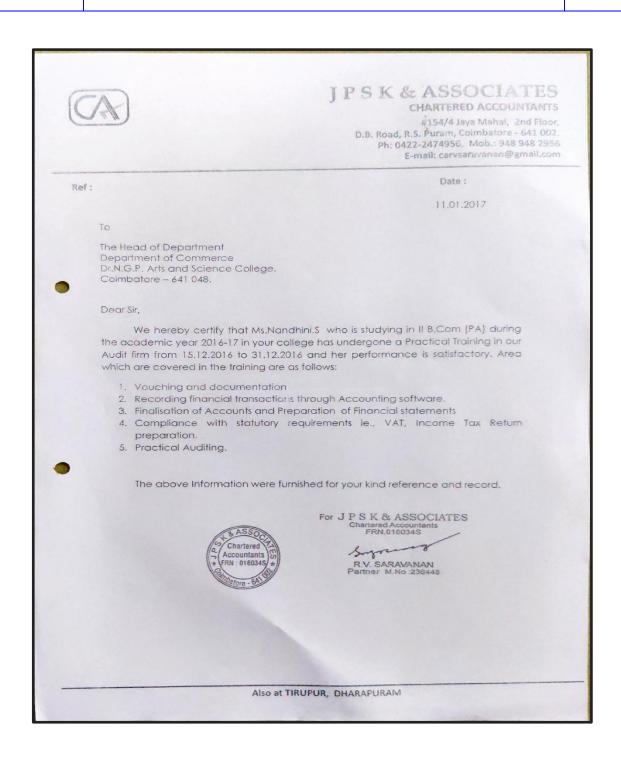
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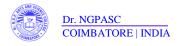
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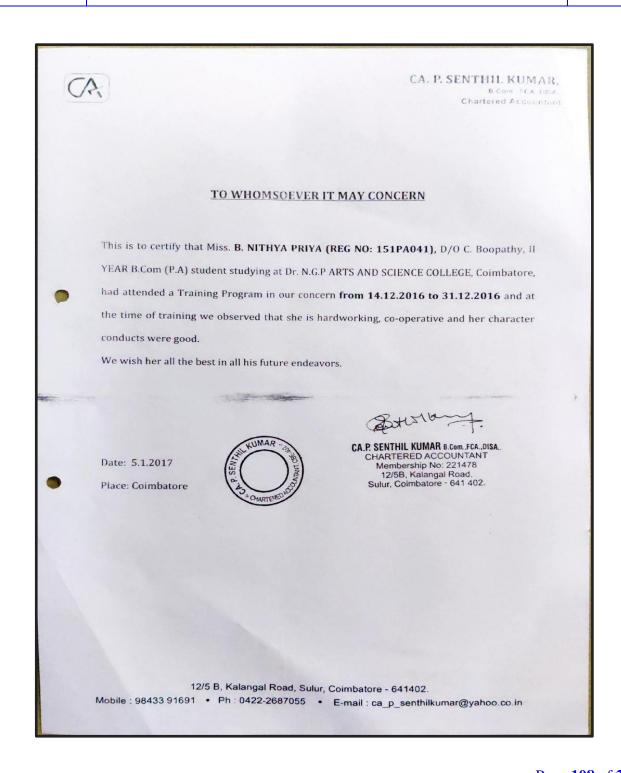
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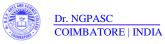
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Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

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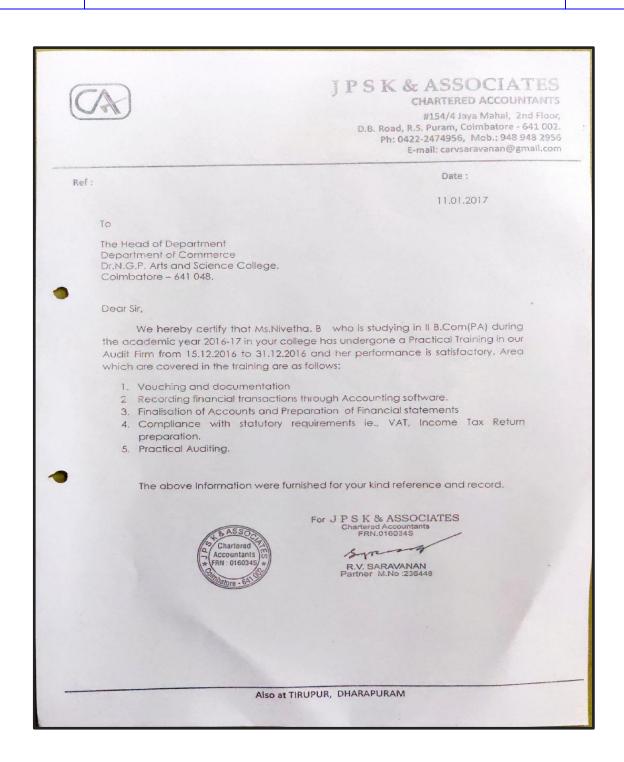
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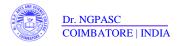
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NAAC 3<sup>rd</sup> Cycle







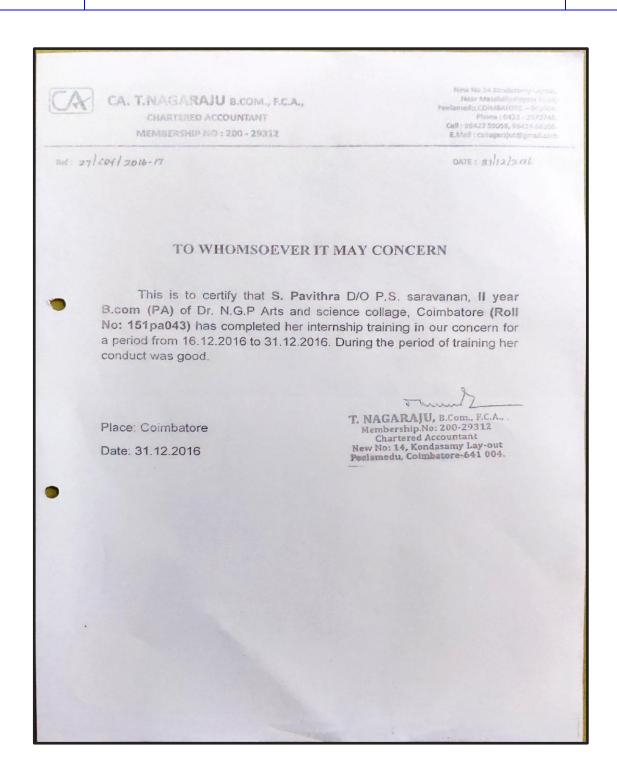
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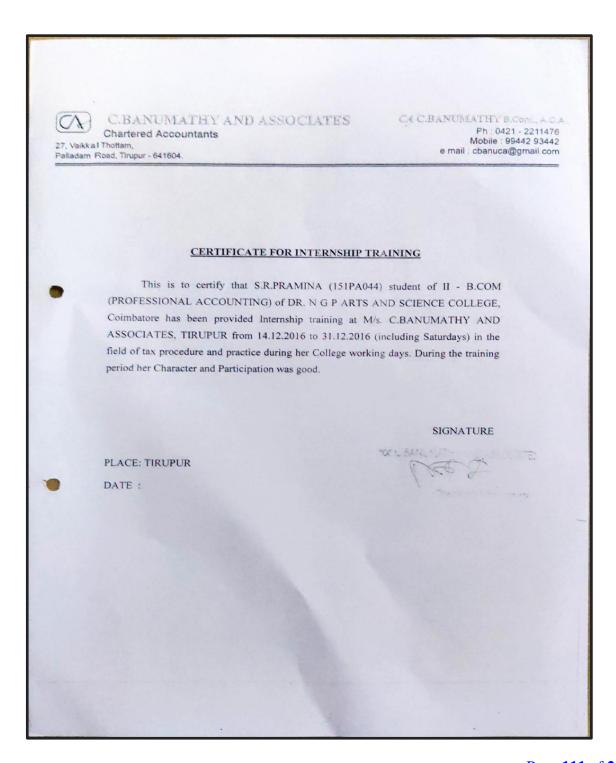
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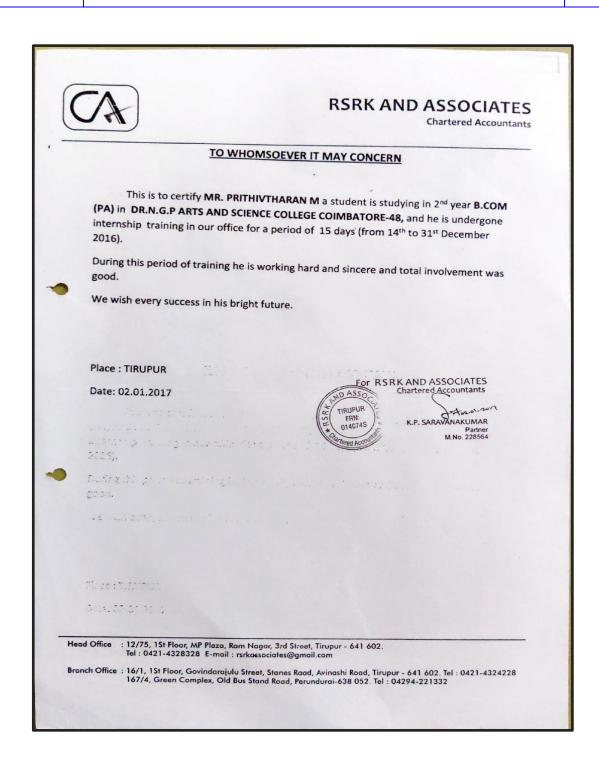
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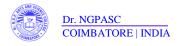
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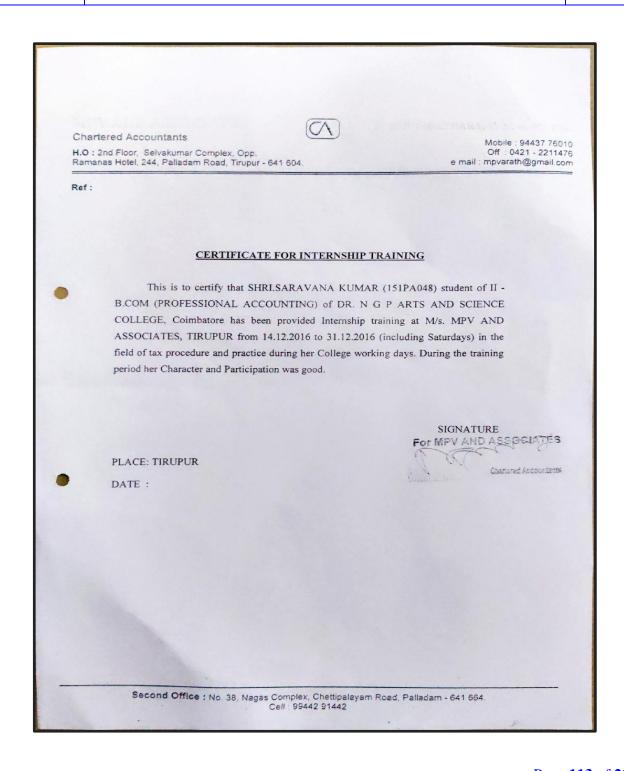
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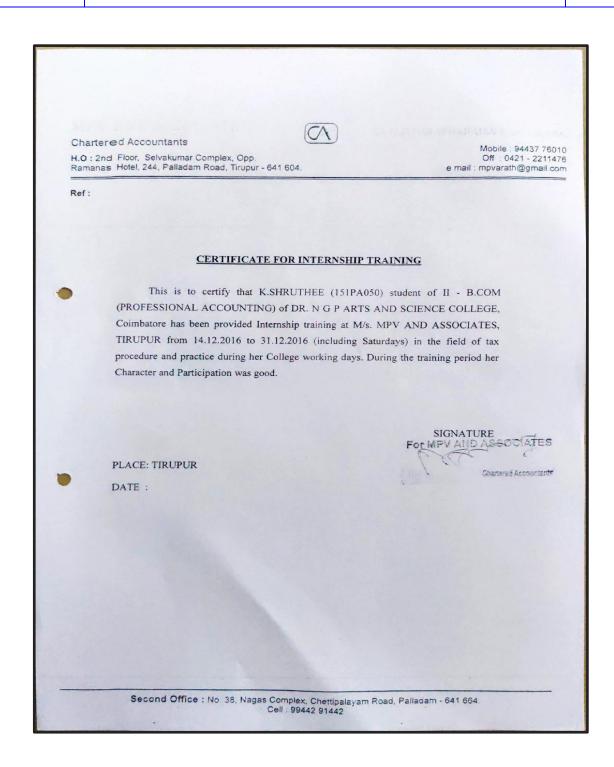
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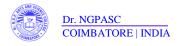
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Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

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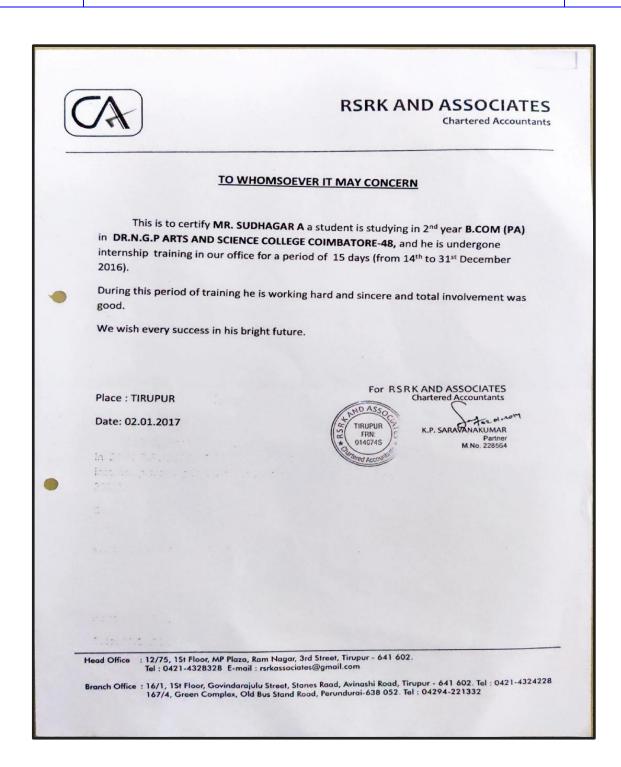
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28.05.2018

#### TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. D.G. ABINAYA who is studying IInd year B.Sc Physics in the Dr. N. G. P ARTS AND SCIENCE COLLEGE. She undergone the Internship training in RADIOLOGY from 07.05.2018 to 23.05.2018.

During this period we found her to be sincere in her work and regular in her attendance. During this period her conduct and character have been found to be good.

We wish her all the best in her future endeavors.

Dr. T.Jayakumar Ph.D

Sr. Manager - HR









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NAAC
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Criterion III Metric 3.7.1

# Radio Astronomy Centre

ATA INSTITUTE OF FUNDAMENTAL RESEARCH O Box 8, UDHAGAMANDALAM (OOTY) 643 001, TAMILNADU, INDIA elephone : (0423)2244880, 2244888, Fax: (0423), 2244900

mail: userid@wm.ncra.tifr.res.in



01-06-2018

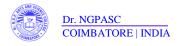
# TO WHOMSOEVER THIS MAY CONCERN

This is to certify that Ms. **Akshiya N** (B.Sc Physics) student of Dr. N.G.P. Arts and Science College, Coimbatore, has participated in the implant training at the Radio Astronomy Centre, (NCRA – TIFR), Udhagamandalam, from 28.05.2018 to 01.06.2018.



D Ravikumar Co-ordinator

Operated by : National Centre for Radio Astrophysics, TIFR, P.B.No.3, Ganeshkhind, Pune - 411 007, India





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Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

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NAAC
3rd Cycle

Criterion III
Metric 3.7.1



26<sub>e</sub>05-2018

# TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. B.ANISH** (161PH003) B.Sc (Physics) 2<sup>nd</sup> Year in Dr. NGP Arts & Science Collage Coimbatore (Autonomous) have undergone internship training on 10.05.2018 to 26.05.2018 on various process in Dyeing, Printing, Production and other areas of our units. During this period their conduct and character were found good.

We wish their success in their future endeavour.

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# INTERNSHIP CERTIFICATE

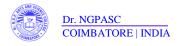
This is to certify that **Ms.S.Anuradha**, Trainee from Dr.N.G.P. Arts and science college, Kalapatti, Coimbatore has undergone internship in our Organisation (M/s. TamilNadu Energy Solutionss Private Limited, Veerapandi, Coimbatore) for 15 days. His Conduct during the internship is found to be **GOOD**.

For Tamilnadu Energy Solutionss Pvt.Ltd.,

Director Technical

Place: Coimbatore.

Date: 29.05.2018





(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

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Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

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23.05.2018

#### CERTIFICATE

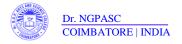
This is to certify that Miss. ANUSHA K,

IInd B.Sc.Physics, Dr. N.G.P. Arts and Science College, Coimbatore – 641 048 had undergone an Internship Training in our company from 07.05.2018 to 23.05.2018. During this training period her conduct and character were good. We wish her all success in her future career.

FOT SRI KARUNAMBIKAI MILLS PVT. LTD

Authorised Signatory

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NAAC 3<sup>rd</sup> Cycle

Criterion III Metric 3.7.1

# adio Astronomy Centre

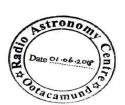
TA INSTITUTE OF FUNDAMENTAL RESEARCH
) Box 8, UDHAGAMANDALAM (OOTY) 643 001, TAMILNADU, INDIA
ephone: (0423)2244880, 2244888, Fax: (0423), 2244900
ail: userid@wm.ncra.tifr.res.in



01-06-2018

#### TO WHOMSOEVER THIS MAY CONCERN

This is to certify that Ms. **Anushiya N** (B.Sc Physics) student of Dr. I.G.P. Arts and Science College, Coimbatore, has participated in ne implant training at the Radio Astronomy Centre, (NCRA – TIFR), dhagamandalam, from 28.05.2018 to 01.06.2018.



D Ravikumar Co-ordinator

Operated by : National Centre for Radio Astrophysics, TIFR, P.B.No.3, Ganeshkhind, Pune - 411 007, India





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28.05.2018

#### TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. M. APARNNA who is studying IInd year B.Sc Physics in the Dr. N. G. P ARTS AND SCIENCE COLLEGE. She undergone the Internship training in RADIOLOGY from 07.05.2018 to 23.05.2018.

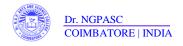
During this period we found her to be sincere in her work and regular in her attendance. During this period her conduct and character have been found to be good.

We wish her all the best in her future endeavors.

Sr. Manager - HR









(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

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Website: www.revathimedicalcenter.com



12.05.2018

#### DECLARATION

This is to certify that Miss.S.Bagavathi Sri from the student of DR.N.G.P.ARTS AND SCIENCE COLLEGE, Coimbatore in B.Sc Physics, has successfully completed his training in our institution for a period of 5 days (08/05/2018 to 12/05/2018) and have learned about various process involved on our Radiology Department.

During these times her course of action is good.

Radiologist In-charge

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NAAC 3<sup>rd</sup> Cycle

Criterion III Metric 3.7.1



Date:

#### **TO WHOM IT MAY CONCERN**

This is to certify that Mr.S.BALSHANMUGAN, a student of B.sc Physics (Bachelor of science, physics), Dr.NGP Arts and Science College, has successfully completed 7 Days (From 10.05.2018 to 17.05.2018) internship programme at our organization in the domain of Dying industry, Application. During the period of internship programme with us he was found punctual, hard working and inquisitive.

We wish him every success in life.

FOR SHIVA ENTERPRISES

Proprietor

**2/74, Indira Nagar, 4 Chettipalaya**m, Angeripalayam (Po.), Tirupur - 641 602. **Mobile : +91 99941 30347, +91 99941 30449**, +91 96260 37637, +91 96775 85152 **E-mail : shivaenterprisestup@gmail.com** 





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Date: 18.05.2018

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that the Ms. R.BANUMATHI (16IPH011), 2nd year B.Sc. Physics Student of Dr. N.G.P Arts and Science College, Coimbatore has completed his Internship Training in our Organization from 04.05,2018 to 18.05.2018.

For BARANI HYDRAULICS INDIA PRIVATE LIMITED,





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# Radio Astronomy Centre

TATA INSTITUTE OF FUNDAMENTAL RESEARCH P.O Box 8, UDHAGAMANDALAM (OOTY) 643 001, TAMILNADU, INDIA Telephone: (0423)2244880, 2244888, Fax: (0423), 2244900 Email: userid@wm.ncra.tift.res.in



01-06-2018

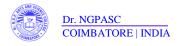
#### TO WHOMSOEVER THIS MAY CONCERN

This is to certify that Mr. **Darshan R** (B.Sc Physics) student of Dr. N.G.P. Arts and Science College, Coimbatore, has participated in the implant training at the Radio Astronomy Centre, (NCRA – TIFR), Udhagamandalam, from 28.05.2018 to 01.06.2018.



D Ravikumar Co-ordinator

Operated by : National Centre for Radio Astrophysics, TIFR, P.B.No.3, Ganeshkhind, Pune – 411 007, India





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NAAC 3<sup>rd</sup> Cycle

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E-mail: revathimedicalcenter@gmail
Website: www.revathimedicalcenter.com



12.05.2018

#### DECLARATION

This is to certify that Miss.S.Dhana Pradhibha from the student of DR.N.G.P.ARTS AND SCIENCE COLLEGE, Colmbatore in B.Sc Second Year Physics, has successfully completed his training in our institution for a period of 5 days (08/05/2018 to 12/05/2018) and have learned about various process involved on our Radiology Department.

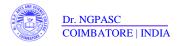
During these times her course of action is good.

Radiologist In-charge

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2 | Radio Image Technology





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NAAC
3rd Cycle

Criterion III Metric 3.7.1

# Radio Astronomy Centre

TATA INSTITUTE OF FUNDAMENTAL RESEARCH P.O Box 8, UDHAGAMANDALAM (OOTY) 643 001, TAMILNADU, INDIA Telephone: (0423)2244880, 2244888, Fax: (0423), 2244900 Email: userid@wm.ncra.tifr.res.in



01-06-2018

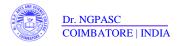
# TO WHOMSOEVER THIS MAY CONCERN

This is to certify that Mr. **Dharun Prashath P** (B.Sc Physics) student of Dr. N.G.P. Arts and Science College, Coimbatore, has participated in the implant training at the Radio Astronomy Centre, (NCRA – TIFR), Udhagamandalam, from 28.05.2018 to 01.06.2018.



D Ravikumar Co-ordinator

Operated by : National Centre for Radio Astrophysics, TIFR, P.B.No.3, Ganeshkhind, Pune - 411 007, India





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**NAAC** 3rd Cycle

**Criterion III Metric 3.7.1** 



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28.05.2018

#### TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. A. DHIVYA who is studying IInd year B.Sc Physics in the Dr. N. G. P ARTS AND SCIENCE COLLEGE. She undergone the Internship training in RADIOLOGY from 07.05.2018 to 23.05.2018.

During this period we found her to be sincere in her work and regular in her attendance. During this period her conduct and character have been found to be good.

We wish her all the best in her future endeavors.

Dr. T.Jayakumar Ph.D

Sr. Manager - HR









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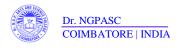
### INTERNSHIP CERTIFICATE

This is to certify that **Ms.S.Dhivya**, Trainee from Dr.N.G.P. Arts and science college, Kalapatti, Coimbatore has undergone internship in our Organisation (M/s. TamilNadu Energy Solutionss Private Limited, Veerapandi, Coimbatore) for 15 days. His Conduct during the internship is found to be **GOOD**.

For Tamilnadu Energy Solutionss Pvt.Ltd.,

Place : Coimbatore.

Date: 29.05.2018





(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

Approved by Government of Tamil Nadu and Accredited by NAAC with 'A' Grade (2<sup>nd</sup> Cycle)

Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

NAAC
3rd Cycle

Criterion III Metric 3.7.1



NO.78/10, BELLARY ROAD, CHIKKAJALA, BANGALORE - 562 157

#### **CERTIFICATE FOR INTERNSHIP**

This is to certify that Ms.N.Divya student of Dr.N.G.P.Arts and Science College (Autonomous), Branch:B.Sc.(Physics) has successfully completed 10 days (from 25 May 2018 – 03 June 2018) internship program at DECATHLON SPORTS INDIA.

During the internship, Ms.N.Divya has closely worked as a part of the Comparative study of retail organisation Decathlon.

She demonstrated good marketing skills and stratergy with self motivated attitute to learn new things. Her contribution to creative ideas, sponsership presentation and study of different marketing stratergy.

Decathlon sincerely appreciate her work contribution during events, program and layout. We found the candidiate to be self starter who is motivated, self confident and highly Creative mind. We wish her all the best for the future endeavours.

**ISSUED DATE: 04 JUNE 2018** 

ABISHEK MANAGER DECATHLON, COIMBATORE NAVEEN PRASATH DEPARTMENT MANAGER DECATHLON, COIMBATORE

Danny Glove

ANJALI PATELSTORE SPORT LEADER DECATHLON,

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¥ ₹ /Ref. No.

दिनांक /Date:

No.AAI/CB/E-1 (Student Project)/2018/ 2370

Dt.07.05.2018

# TO WHOMSOEVER IT MAY CONCERN INTERNSHIP TRAINING COMPLETION CERTIFICATE

This is to certify that Miss.S. Geetha, 2nd Year B.Sc (Physics) student of M/s.Dr.N.G.P. Arts and Science College, Colmbatore has successfully completed nternship Training in the field of Air Traffic Control / CNS / Operations at Coimbatore nternational Airport during the period from 01.05.2018 to 05.05.2018.

The conduct, behavior and interest shown by the student were exemplary.

We wish here all the best for her future endeavors.

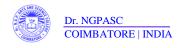
मान्याय विकासवास वाधिकरण

ss.S. Geetha, Year B.Sc (Physics), s.Dr.N.G.P. Arts and Science College, lapatti. imbatore



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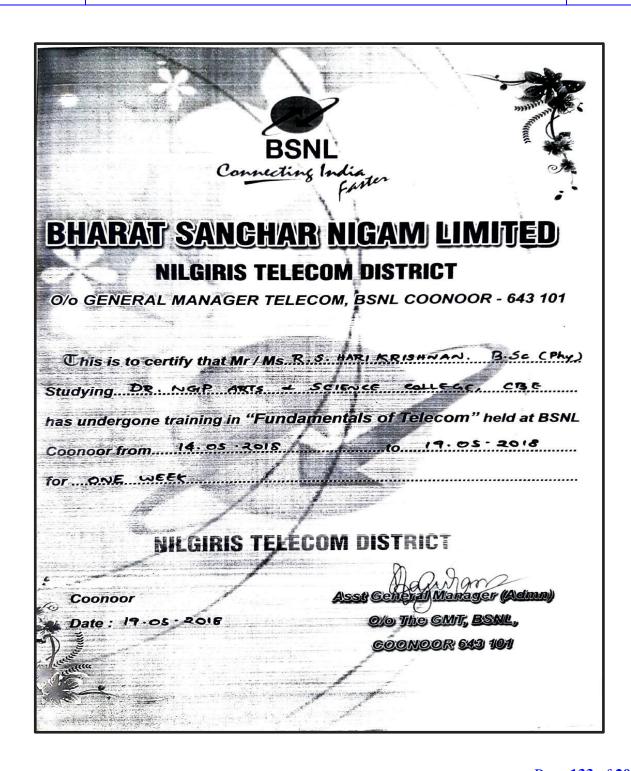
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#### TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. L.HARIHARAN (161PH022) B.Sc (Physics) 2<sup>nd</sup> Year in Dr. NGP Arts & Science Collage Coimbatore (Autonomous) have undergone internship training on 10.05.2018 to 26.05.2018 on various process in Dyeing, Printing, Production and other areas of our units. During this period their conduct and character were found good.

We wish their success in their future endeavour.

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19th MAY 2018

#### TRAINING COMPLETION CERTIFICATE

This is to certify that Ms. B. Indhuja a student of B.Sc. Physics, Dr.N.G.P.Arts And Science College Coimbatore. She has completed training programme from 16<sup>th</sup> to 18<sup>th</sup> May 2018 based on the topic of "Study on Working Environment Productivity among Employees ". During the period her training with us, she was found punctual, hardworking and inquisitive towards their subject was appreciable.

We wish him success in all future endeavours.

For STEEL FABS

N.Mathivanan

Partner

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28.05.2018

#### TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. IWYN RAJAM** who is studying IInd year B.Sc Physics in the Dr. N. G. P ARTS AND SCIENCE COLLEGE. She undergone the Internship training in RADIOLOGY from 07.05.2018 to 23.05.2018.

During this period we found her to be sincere in her work and regular in her attendance. During this period her conduct and character have been found to be good.

We wish her all the best in her future endeavors.

Dr. T.Jayakumar Ph.D

Sr. Manager - HR









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12.05.2018

#### DECLARATION

This is to certify that Miss.P.Jaya Harshini from the student of DR.N.G.P.ARTS AND SCIENCE COLLEGE, Coimbatore in B.Sc Second Year Physics, has successfully completed his training in our institution for a period of 5 days (08/05/2018 to 12/05/2018) and have learned about various process involved on our Radiology Department.

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दिनांक /Date:

No.AAI/CB/E-1 (Student Project)/2018/ 2366

Dt.07.05.2018

# TO WHOMSOEVER IT MAY CONCERN INTERNSHIP TRAINING COMPLETION CERTIFICATE

This is to certify that Miss.M. Jeevitha, 2<sup>nd</sup> Year B.Sc (Physics) student of M/s.Dr.N.G.P. Arts and Science College, Coimbatore has successfully completed Internship Training in the field of Air Traffic Control / CNS / Operations at Coimbatore International Airport during the period from 01.05.2018 to 05.05.2018.

The conduct, behavior and interest shown by the student were exemplary.

We wish here all the best for her future endeavors.

The Bright STA

To

Miss.M. Jeevitha, 2<sup>nd</sup> Year B.Sc (Physics), M/s.Dr.N.G.P. Arts and Science College, Kalapatti, Coimbatore

स्विट्राजन . एम / SQUNDARARAJAN. M स्विट्राजन . एम / SQUNDARARAJAN. M वरिष्ठ प्रवंचक (जा.ते)/ Senior Manager (HR) कृते हिमानपत्त निषेक्त / For Airport Director जारतीय हिमानपत्त न्याधिकः (For Airport Director in Marion) d Science College,



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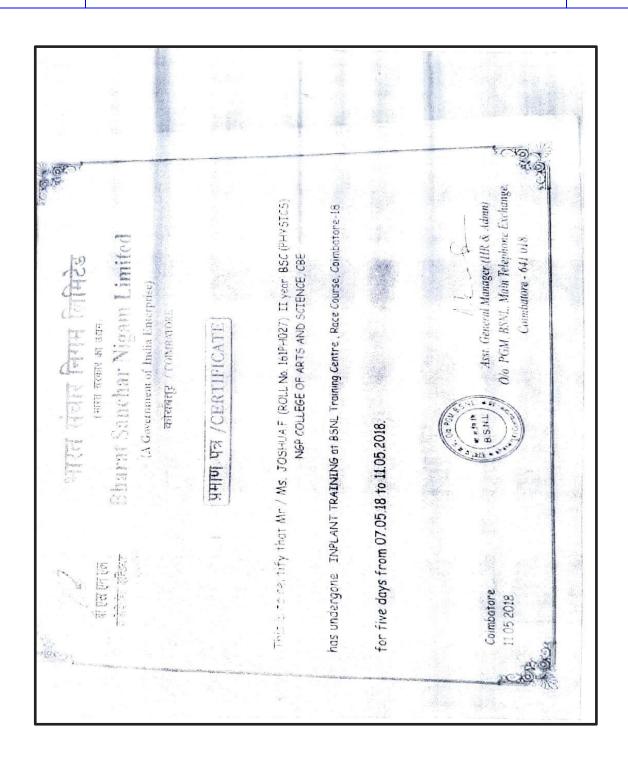
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23.05.2018.

#### CERTIFICATE

This Is to certify that Mr.M.KARTHIK, IInd B.Sc Physics, Dr.N.G.P.Arts and Science College, Coimbatore – 641 048 had undergone an Internship Training in our company from 07.05.2018 to 23.05.2018. During this training period his conduct and character were good. We wish him all success in his future career.

For SRI KARUNAMBIKALMILLS PVT LTD.

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05.10.2018

# TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. J.KARTHIK who is studying III-BSC PHYSICS in the DR. N.G.P COLLEGE OF ARTS AND SCIENCE. He undergone the Hospital Training in RADIOLOGY DEPARTMENT from 24.09.2018 to 28.09.2018.

During this period we found him to be sincere in his work and regular in his attendance. During this period his conduct and character have been found to be good.

We wish him all the best in his future endeavors.

Dr. T.Jayakumar Ph.D

Sr. Manager - HR









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Cell: 94433 - 20240, 63658, 30551

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19<sup>th</sup> MAY 2018

#### TRAINING COMPLETION CERTIFICATE

This is to certify that Ms. K. Kaviya a student of B.Sc. Physics, Dr.N.G.P.Arts And Science College Coimbatore. She has completed training programme from 16<sup>th</sup> to 18<sup>th</sup> May 2018 based on the topic of "Study on Working Environment Productivity among Employees ". During the period her training with us, she was found punctual, hardworking and inquisitive towards their subject was appreciable.

We wish him success in all future endeavours.

For STEEL FABS

N.Mathivanan

Partner

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01-06-2018

#### TO WHOMSOEVER THIS MAY CONCERN

This is to certify that Ms. **Keerthana K** (B.Sc Physics) student of Dr. G.P. Arts and Science College, Coimbatore, has participated in e implant training at the Radio Astronomy Centre, (NCRA – TIFR), phagamandalam, from 28.05.2018 to 01.06.2018.



D Ravikumar Co-ordinator

Operated by : National Centre for Radio Astrophysics, TIFR, P.B.No.3, Ganeshkhind, Pune - 411 007, India





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05.10.2018

## TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. P.MADHAN who is studying III-BSC PHYSICS in the DR. N.G.P COLLEGE OF ARTS AND SCIENCE. He undergone the Hospital Training in RADIOLOGY DEPARTMENT from 24.09.2018 to 28.09.2018.

During this period we found him to be sincere in his work and regular in his attendance. During this period his conduct and character have been found to be good.

We wish him all the best in his future endeavors.

Dr. T.Jayakumar Ph.D

Sr. Manager / HR









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दिनांक /Date:

No.AAI/CB/E-1 (Student Project)/2018/

Dt.07.05.2018

# TO WHOMSOEVER IT MAY CONCERN INTERNSHIP TRAINING COMPLETION CERTIFICATE

This is to certify that Miss.V. Masilakanmani, 2nd Year B.Sc (Physics) student of M/s.Dr.N.G.P. Arts and Science College, Coimbatore has successfully completed Internship Training in the field of Air Traffic Control / CNS / Operations at Coimbatore International Airport during the period from 01.05.2018 to 05.05.2018.

The conduct, behavior and interest shown by the student were exemplary.

We wish here all the best for her future endeavors.

मारवाय विमानपत्तः AIRPORTS AUTHORITY OUNDARARAJAN, M

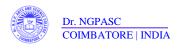
To

Miss.V. Masilakanmani, 2nd Year B.Sc (Physics), M/s.Dr.N.G.P. Arts and Science College, Kalapatti,

Coimbatore

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दिनांक /Date :

No.AAI/CB/E-1 (Student Project)/2018/ 2367

Dt.07.05.2018

## TO WHOMSOEVER IT MAY CONCERN INTERNSHIP TRAINING COMPLETION CERTIFICATE

This is to certify that Miss.N. Monisaa, 2<sup>nd</sup> Year B.Sc (Physics) student of M/s.Dr.N.G.P. Arts and Science College, Coimbatore has successfully completed Internship Training in the field of Air Traffic Control / CNS / Operations at Coimbatore International Airport during the period from 01.05.2018 to 05.05.2018.

The conduct, behavior and interest shown by the student were exemplary.

We wish here all the best for her future endeavors.

W. Brand the

To

Miss.N. Monisaa, 2<sup>nd</sup> Year B.Sc (Physics), M/s.Dr.N.G.P. Arts and Science College, Kalapatti, Coimbatore

सीवराजन . एन / SGUNDARARAJAN. M विद्य प्रवेकक (जा.सं)/ Sentor Manager (HR) कृते विमानशत निवेशक / Fer Airport Director भारतीय मिमानशत्त प्रविकरण / Airports Authority of India क्षेत्रचार जनवरण्यात्र व्यवस्थात् / Colmbatore Intl. Airport क्षेत्रचार / Colmbatore - 641 014.



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## INTERNSHIP CERTIFICATE

This is to certify that **Ms.M.Muneeshwari**, Trainee from Dr.N.G.P. Arts and science college, Kalapatti, Coimbatore has undergone internship in our Organisation (M/s. TamilNadu Energy Solutionss Private Limited, Veerapandi, Coimbatore) for 15 days. His Conduct during the internship is found to be **GOOD**.

For Tamilnadu Energy Solutionss Pvt.Ltd.,

Director Christian

Place: Coimbatore.

Date: 29.05.2018





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Criterion III Metric 3.7.1





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MANAGER TELECOM BSNL COONOOR - 643 101

This is to certify that Mr / Ms. M. NAVIN B.Sc. (Phy)
Studying DR LIGP ARTS - SCIENCE COLLEGE, CBE
has undergone training in "Fundamentals of Telecom" held at BSNL
Coonoor from 14.05 2018 to 19.05 2018
for one west

Coonoor

L. Date: 19.05 -2018

Asst General Manager (Admin) 0/0 The GMT, BSNL COONOOR 643 101





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संदर्भ सं. / Ref. No.

दिनांक /Date:

No.AAI/CB/E-1 (Student Project)/2018/ 2369

Dt.07.05.2018

# TO WHOMSOEVER IT MAY CONCERN INTERNSHIP TRAINING COMPLETION CERTIFICATE

This is to certify that Miss.Nithya Shree K, 2nd Year B.Sc (Physics) student of M/s.Dr.N.G.P. Arts and Science College, Coimbatore has successfully completed Internship Training in the field of Air Traffic Control / CNS / Operations at Coimbatore International Airport during the period from 01.05.2018 to 05.05.2018.

The conduct, behavior and interest shown by the student were exemplary.

We wish here all the best for her future endeavors.

AIRPORTS AUTHORITY OF IND

То

Miss.Nithya Shree K 2<sup>nd</sup> Year B.Sc (Physics), M/s.Dr.N.G.P. Arts and Science College, Kalapatti, Coimbatore सींदरराजन. एवं / SOUNDARARAIAN. M बीट्रेष्ठ प्रबंदक (अ.सं)/ Senior Manager (HR) कृषे विवानस्था निर्देशक । Fo. Airport viractor स्थिति के मानस्थान चारिकः । काळाडिक Authority o' India क्रीवानस्थान चारिकः । काळाडिक et nit. Airport क्रीवानस्थानस्थानस्थानस्थानस्य



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## INTERNSHIP CERTIFICATE

This is to certify that **Ms.R.Pradeepa**, Trainee from Dr.N.G.P. Arts and science college, Kalapatti, Coimbatore has undergone internship in our Organisation (M/s. TamilNadu Energy Solutionss Private Limited, Veerapandi, Coimbatore) for 15 days. His Conduct during the internship is found to be **GOOD**.

For Tamilnadu Energy Solutionss Pyt.Ltd.,

Director Technical

Place: Coimbatore.

Date: 29.05.2018





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SBSF/DRNGPASC/18-19

19th MAY 2018

#### TRAINING COMPLETION CERTIFICATE

This is to certify that Mr. R. Prakash a student of B.Sc. Physics, Dr.N.G.P.Arts And Science College Coimbatore. He has completed training programme from 16<sup>th</sup> to 18<sup>th</sup> May 2018 based on the topic of "Study on Working Environment Productivity among Employees". During the period his training with us, He was found punctual, hardworking and inquisitive towards their subject was appreciable.

We wish him success in all future endeavours.

For SHRI BALAJI STEEL FABS



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दर्भ सं / Ref No.

दिनांक /Date:

No.AAI/CB/E-1 (Student Project)/2018/ 2371

Dt.07.05.2018

## TO WHOMSOEVER IT MAY CONCERN INTERNSHIP TRAINING COMPLETION CERTIFICATE

This is to certify that Miss.R. Priyadharshini, 2<sup>rd</sup> Year B.Sc (Physics) student of M/s.Dr.N.G.P. Arts and Science College, Coimbatore has successfully completed Internship Training in the field of Air Traffic Control / CNS / Operations at Coimbatore International Airport during the period from 01.05.2018 to 05.05.2018.

The conduct, behavior and interest shown by the student were exemplary.

We wish here all the best for her future endeavors.

MERORIS AUTHORITY OF

18. Rose Brights

To

Miss.R. Priyadharshini, <sup>2nd</sup> Year B.Sc (Physics), M/s.Dr.N.G.P. Arts and Science College, (alapatti, Colmbatore सींदराजन एस / SOUNDARARAJAN, M व्यक्ति प्रवेदक (आ.सं)/ Senior Manager (HR) कृदे स्थितपार निरोक्त I For Airport Director बारतीय विमानपाल प्राविकारण / Airports Authority of Indi केरणपुर कार्यापाल स्थापकार / Colmbetore Intl. Airport कोरणपुर कार्यापाल स्थापकार / Colmbetore Intl. Airport



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05.10.2018

#### TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. R.PRIYADHARSINI who is studying III-BSC PHYSICS in the DR. N.G.P COLLEGE OF ARTS AND SCIENCE. She undergone the Hospital Training in RADIOLOGY DEPARTMENT from 24.09.2018 to 28.09.2018.

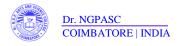
During this period we found her to be sincere in her work and regular in her attendance. During this period her conduct and character have been found to be good.

We wish her all the best in her future endeavors.

Sr. Manager - HR









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SBSF/DRNGPASC/18-19

19th MAY 2018

#### TRAINING COMPLETION CERTIFICATE

This is to certify that Ms. M. Ramya a student of B.Sc. Physics, Dr.N.G.P.Arts And Science College Coimbatore. She has completed training programme from 16<sup>th</sup> to 18<sup>th</sup> May 2018 based on the topic of "Study on Working Environment Productivity among Employees". During the period her training with us, she was found punctual, hardworking and inquisitive towards their subject was appreciable.

We wish him success in all future endeavours.

For SHRI BALAJI STEEL FABS



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COIMBATORE - 641 006
PHONE: 2666986

FAX:091-0422-2531759 E-mail: jimsamtea5@gmail.com Website: www.sundaramengg.com

#### **TO WHOM IT MAY CONCERNS**

This is certify that J. Roshan Johns, S/o, D. Johnson a student of B.SC (Physics), Dr. NGP Arts and Science college, Coimbatore has successfully completed from 7<sup>th</sup> May 2018 to 12<sup>th</sup> May 2018, Internship Programme at our company regarding the manufacture and function of an Electrostatic Fiberomate machine(Electrostatic fiber extraction machine). During this period of his internship programme with us he was found punctual and hard working.

FOR JIMSAM TEA EQUIPMENTS PVT. LTD.,

MANAGER.

Place : Coimbatore Date : 29.09.2018.





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संदर्भ सं. / Ref. No.

दिनांक /Date:

No.AAI/CB/E-1 (Student Project)/2018/ 2365

Dt.07.05.2018

## TO WHOMSOEVER IT MAY CONCERN INTERNSHIP TRAINING COMPLETION CERTIFICATE

This is to certify that Miss.B. Sangeetha, 2nd Year B.Sc (Physics) student of M/s.Dr.N.G.P. Arts and Science College, Coimbatore has successfully completed Internship Training in the field of Air Traffic Control / CNS / Operations at Coimbatore International Airport during the period from 01.05.2018 to 05.05.2018.

The conduct, behavior and interest shown by the student were exemplary.

We wish here all the best for her future endeavors.

AIRPORTS AL

大大大大大大大 八十

To

Miss.B. Sangeetha, 2<sup>nd</sup> Year B.Sc (Physics), M/s.Dr.N.G.P. Arts and Science College, Kalapatti, Coimbatore सींवरराजन .एम / SOUNDARARAIAN. M वरिष्ठ प्रसंबक (आ.सं)/ Senier Manager (HR) कृते क्रियलयन निरेक्त I For Airports Different बारतीय विचानस्थल स्विकार / Airports Authority of India सेन्स्यूर सन्दर्शनीय वर्षाञ्च I Colmbature Int. Airport



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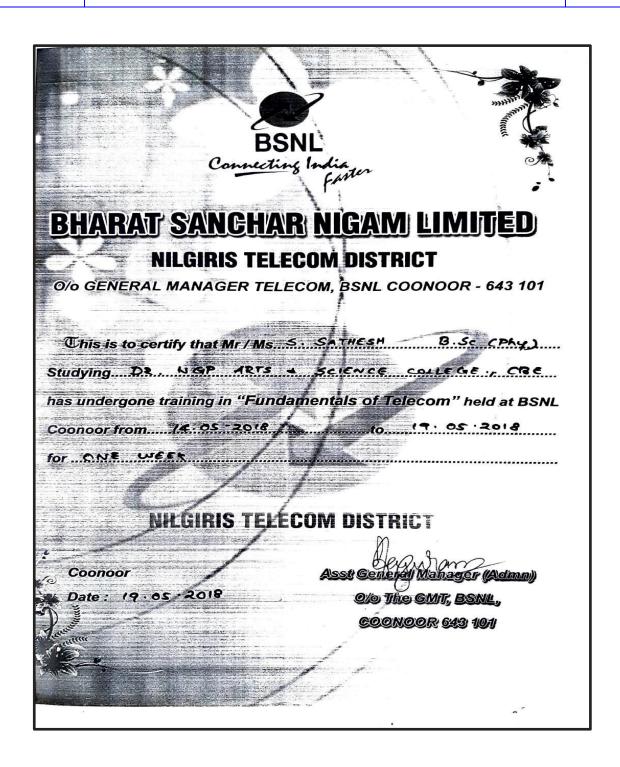
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19th MAY 2018

#### TRAINING COMPLETION CERTIFICATE

This is to certify that Ms. S. Shreegeetha a student of B.Sc. Physics, Dr.N.G.P.Arts And Science College Coimbatore. She has completed training programme from 16<sup>th</sup> to 18<sup>th</sup> May 2018 based on the topic of "Study on Working Environment Productivity among Employees ". During the period her training with us, she was found punctual, hardworking and inquisitive towards their subject was appreciable.

We wish him success in all future endeavours.

For STEEL FABS

N.Mathiyanan

Partner

TANK PEOPLE

e-mail: steelfabsk7@yahoo.com

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## STARK MOTORS



Date: 19.06.2018

#### CERTIFICATE

This is to certify that Ms.M.Shruthi III - B.sc Physics of Dr.N.G.P .ARTS AND SCIENCE

COLLEGE, KALAPPATTI ROAD, COIMBATORE 641 048.

had undergone Industrial Training in our Organization from 15.06.2018 to 19.06.2018.

We wish them all success in their future career.

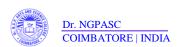
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## Radio Astronomy Centre

TATA INSTITUTE OF FUNDAMENTAL RESEARCH P.O Box 8, UDHAGAMANDALAM (OOTY) 643 001, TAMILNADU, INDIA Telephone: (0423)2244880, 2244888, Fax: (0423), 2244900 Email: userid@wm.ncra.tifr.res.in



01-06-2018

## TO WHOMSOEVER THIS MAY CONCERN

This is to certify that Mr. Sivaananthavela R (B.Sc Physics) student of Dr. N.G.P. Arts and Science College, Coimbatore, has participated in the implant training at the Radio Astronomy Centre, (NCRA – TIFR), Udhagamandalam, from 28.05.2018 to 01.06.2018.



D Ravikumar Co-ordinator

Operated by : National Centre for Radio Astrophysics, TIFR, P.B.No.3, Ganeshkhind, Pune - 411 007, India





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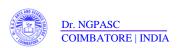
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#### TO WHOMSOEVER IT MAY CONCERN

This is to certify that the Ms. G.Sneha (16IPH053), 2nd year B.Sc. Physics .Student of Dr. N.G.P Arts and Science College, Coimbatore has completed his Internship. Training in our Organization from 04.05.2018 to 18.05.2018.

For BARANI HYDRAULICS INDIA PRIVATE LIMITED,





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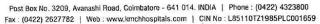
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### KOVAI MEDICAL CENTER AND HOSPITAL LIMITED

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28.05.2018

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This is to certify that Ms. SONA. R who is studying IInd year B.Sc Physics in the Dr. N. G. P ARTS AND SCIENCE COLLEGE. She undergone the Internship training in RADIOLOGY from 07.05.2018 to 23.05.2018.

During this period we found her to be sincere in her work and regular in her attendance. During this period her conduct and character have been found to be good.

We wish her all the best in her future endeavors.

Dr. T.Jayakumar Ph.D Sr. Manager - HR







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Date: 19.06.2018

#### CERTIFICATE

This is to certify that Ms.S.Soniya Rani III - B.sc Physics of Dr.N.G.P ARTS AND SCIENCE

COLLEGE, KALAPPATTI ROAD, COIMBATORE 641 048.

had undergone Industrial Training in our Organization from 15.06.2018 to 19.06.2018.

We wish them all success in their future career.

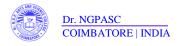
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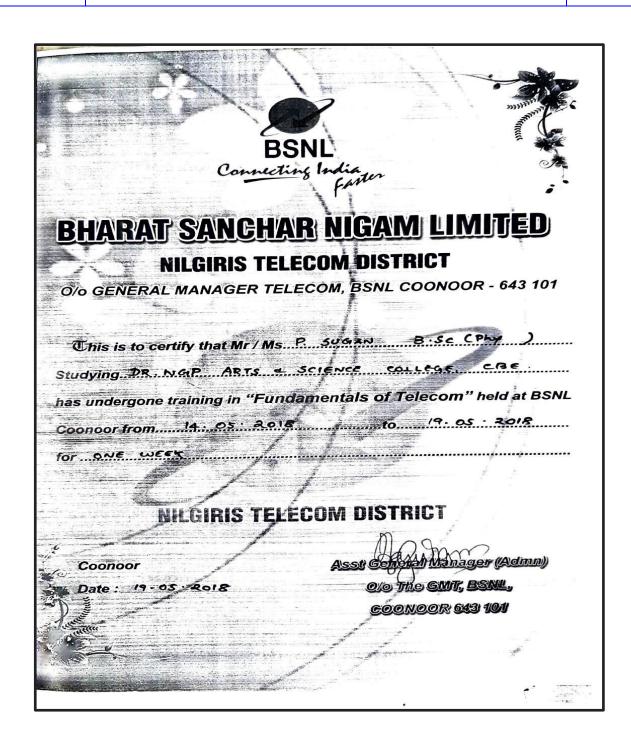
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05.10.2018

## TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. S.SURUTHIKA who is studying III-BSC PHYSICS in the DR. N.G.P COLLEGE OF ARTS AND SCIENCE. She undergone the Hospital Training in RADIOLOGY DEPARTMENT from 24.09.2018 to 28.09.2018.

During this period we found her to be sincere in her work and regular in her attendance. During this period her conduct and character have been found to be good.

We wish her all the best in her future endeavors.

Sr. Manager / HR









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05.10.2018

#### TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. S.K.SUSHMITHA who is studying III-BSC PHYSICS in the DR. N.G.P COLLEGE OF ARTS AND SCIENCE. She undergone the Hospital Training in RADIOLOGY DEPARTMENT from 24.09.2018 to 28.09.2018.

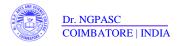
During this period we found her to be sincere in her work and regular in her attendance. During this period her conduct and character have been found to be good.

We wish her all the best in her future endeavors.

Dr. T.Jayakumar Ph.D 5 10. Sr. Manager - HR









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E-mail: revathimedicalcenter@gmail
Website: www.revathimedicalcenter.com



12.05.2018

#### DECLARATION

This is to certify that Miss.S.Tamil Selvi from the student of DR.N.G.P.ARTS AND SCIENCE COLLEGE, Colmbatore in B.Sc Second Year Physics, has successfully completed his training in our institution for a period of 5 days (08/05/2018 to 12/05/2018) and have learned about various process involved on our Radiology Department.

During these times her course of action is good.

Radiologist to-charge

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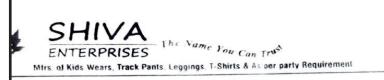
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Web: www.drngpasc.ac.in |Email: info@drngpasc.ac.in | Phone: +91-422-2369100

NAAC 3<sup>rd</sup> Cycle

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Date

### TO WHOM IT MAY CONCERN

This is to certify that Mr.S.THARUN KUMAR, a student of B.sc Physics (Bachelor of science ,physics), Dr.NGP Arts and Science College, has successfully completed 7 Days (From 10.05.2018 to 17.05.2018) internship programme at our organization in the domain of Dying industry, Application. During the period of internship programme with us he was found punctual, hard working and inquisitive.

We wish him every success in life.

FOR SHIVA ENTERPRISES

Ash T.

Proprietor

2/74, Indira Nagar, 4 Chettipalayam, Angeripalayam (Po.), Tirupur 641 602. obile : +91 99941 30347, +91 99941 30449, +91 96260 37637, +91 96775 85152 E-mail : shivaenterprisestup@gmail.com





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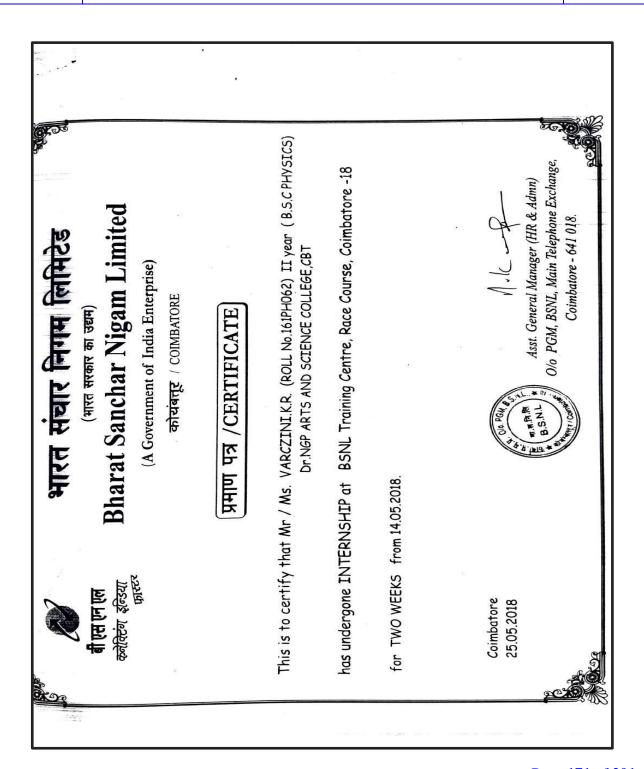
Approved by Government of Tamil Nadu and Accredited by NAAC with 'A' Grade (2<sup>nd</sup> Cycle)

Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

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Date: 18.05.2018

No.ERODE-1 (Student Project 2018)

## TO WHOM CONCERN IT MY CONCERN INTERNSHIP TRAINING COMPLETION CERTIFICATE

This is to certify that Miss.S.VASUKI 2<sup>nd</sup> year B.Sc Physics Student of M/s.Dr.N.G.P Arts and Science College, Coimbatore has successfully completed internship training in the field of yarn manufacturing at Punjai Puliampatti Sri Angalamman Spinning Mills Private Limited during the period from 05.05.2018 to 14.05.2018.

The conduct, behavior and interest shown by the student were exemplary.

We wish here all the best for the future endeavors.

To

Coimbatore

Mr.S.VASUKI,

2<sup>nd</sup> Year B.Sc(Physics),

M/s.Dr.N.G.P.Arts and Science College,
Kalapatti,







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संदर्भ सं. / Ref. No.

दिनांक /Date:

No.AAI/CB/E-1 (Student Project)/2018/ 2568

Dt.07.05.2018

## TO WHOMSOEVER IT MAY CONCERN INTERNSHIP TRAINING COMPLETION CERTIFICATE

This is to certify that Miss.T. Vijaya Lakshmi, 2<sup>nd</sup> Year B.Sc (Physics) student of M/s.Dr.N.G.P. Arts and Science College, Coimbatore has successfully completed Internship Training in the field of Air Traffic Control / CNS / Operations at Coimbatore International Airport during the period from 01.05.2018 to 05.05.2018.

The conduct, behavior and interest shown by the student were exemplary.

We wish here all the best for her future endeavors.

To

Miss.T. Vijaya Lakshmi, 2<sup>nd</sup> Year B.Sc (Physics), M/s.Dr.N.G.P. Arts and Science College, Kalapatti, Coimbatore सींचरराजन . एम / SDUNDARARAJAM. M वरिष्ठु प्रचंकर (जा.सं)/ Senior Manager (HR) कृषे विकायस्थन विशेषक / Fer Alrent Director

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Fax : (0422) 2627782 | Web : www.kmchhospitals.com | CIN No : L85110TZ1985PLC001659



05.10.2018

#### TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. N.VINODHINI who is studying III-BSC PHYSICS in the DR. N.G.P COLLEGE OF ARTS AND SCIENCE. She undergone the Hospital Training in RADIOLOGY DEPARTMENT from 24.09.2018 to 28.09.2018.

During this period we found her to be sincere in her work and regular in her attendance. During this period her conduct and character have been found to be good.

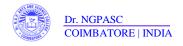
We wish her all the best in her future endeavors.

Dr. T.Jayakumar Ph.D 5/10

Sr. Manager - HR









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05.10.2018

## TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. M.YASAR ARAFAR** who is studying III-BSC PHYSICS in the DR. N.G.P COLLEGE OF ARTS AND SCIENCE. He undergone the Hospital Training in RADIOLOGY DEPARTMENT from 24.09.2018 to 28.09.2018.

During this period we found him to be sincere in his work and regular in his attendance. During this period his conduct and character have been found to be good.

We wish him all the best in his future endeavors.

Dr. T.Jayakumar Pl Sr. Manager - HR









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SBSF/DRNGPASC/18-19

19th MAY 2018

#### TRAINING COMPLETION CERTIFICATE

This is to certify that Mr. M. YogeshwaraPradeep a student of B.Sc. Physics, Dr.N.G.P.Arts And Science College Coimbatore. He has completed training programme from 16<sup>th</sup> to 18<sup>th</sup> May 2018 based on the topic of "Study on Working Environment Productivity among Employees". During the period his training with us, He was found punctual, hardworking and inquisitive towards their subject was appreciable.

We wish him success in all future endeavours.

For SHRI BALAJI STEEL FABS

K.Narumalar

Partner

TANK PEOPLE

SPECIALIST IN CIVIL ENGINEERING & SAND BLASTING

E-mail: shribalajisteelfabs@yahoo.co.in





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NAAC 3<sup>rd</sup> Cycle

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## Radio Astronomy Centre

TATA INSTITUTE OF FUNDAMENTAL RESEARCH P.O Box 8, UDHAGAMANDALAM (OOTY) 643 001, TAMILNADU, INDIA Telephone: (0423)2244880, 2244888, Fax: (0423), 2244900 Email: userid@wm.nera.tifr.res.in



01-06-2018

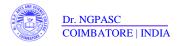
#### TO WHOMSOEVER THIS MAY CONCERN

This is to certify that Ms. **Kowshika S** (B.Sc Physics) student of Dr. N.G.P. Arts and Science College, Coimbatore, has participated in the implant training at the Radio Astronomy Centre, (NCRA – TIFR), Udhagamandalam, from 28.05.2018 to 01.06.2018.



D Ravikumar Co-ordinator

Operated by National Centre for Radio Astrophysics, TIFR, P.B.No.3, Ganeshkhind, Pune – 411 007, India





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Approved by Government of Tamil Nadu and Accredited by NAAC with 'A' Grade (2<sup>nd</sup> Cycle)

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संदर्भ सं. / Ref. No.

दिनांक /Date:

No.AAI/CB/E-1 (Student Project)/2018/ よ73

Dt.07.05.2018

# TO WHOMSOEVER IT MAY CONCERN INTERNSHIP TRAINING COMPLETION CERTIFICATE

This is to certify that Miss.G. Priyadharshini 2nd Year B.Sc (Physics) student of M/s.Dr.N.G.P. Arcs and Science College, Coimbatore has successfully completed Internship Training in the field of Air Traffic Control / CNS / Operations at Coimbatore International Airport during the period from 01.05.2018 to 05.05.2018.

The conduct, behavior and interest shown by the student were exemplary.

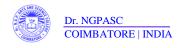
We wish here all the best for her future endeavors.

भारतीय विमानपत्तन प्राधिकरण AIRPORTS AUTHORITY OF INDIA

To

Miss.G. Priyadharshini, 2<sup>nd</sup> Year B.Sc (Physics), M/s.Dr.N.G.P. Arts and Science College, Kalapatti, Coimbatore सौंदरराजन.एम / SOUNDARARAJAN. M वरिष्ठ प्रबंबक (जा.सं)/ Senior Manager (HR) कृते विमानपत्तन निरंतक I For Airport Director भारतीय विमानपत्तन प्रविकरण / Airports Authority of India क्रेक्सबुर जन्तरराष्ट्रीय क्यांज्य ! Coimbatore Intl. Airport क्रिक्सबर ! Colmbators - 641 814







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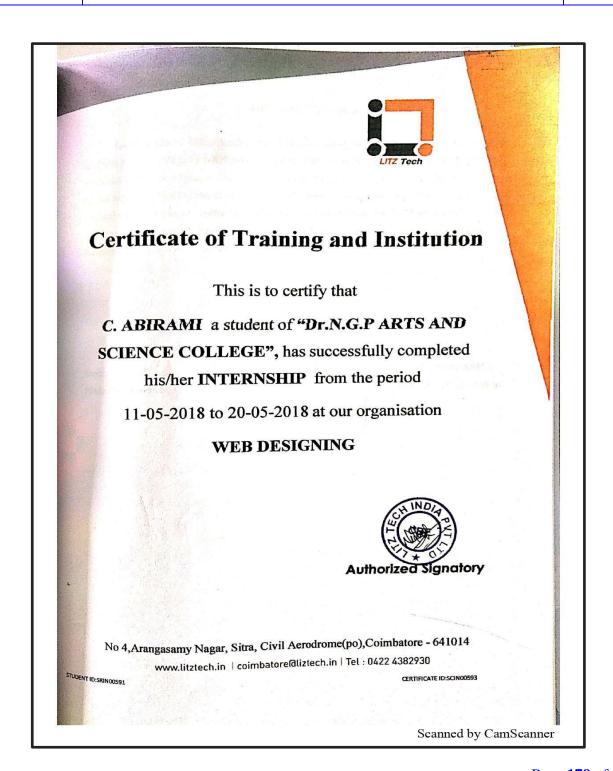
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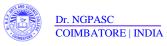
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We appreciate your interest in SWISZ TECH.

AUTHORIZED SIGNATURE

SWISZ TECH N. No: 114, Gokule Street, Opp. Senthil Kumaran Theater, Ramnagar, Coimbatore - 641 000

N.No:114, Gokule Street, Opp. Ramnagar, CBE. Cell:9629909576 / E-mail: vijaynehrutry@gmail.com/ Web-www.swisztech.com

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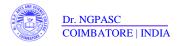
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No.134, 2nd Floor, 4th Street, Opp to Hotel Gowrishankar, Gandhipuram, Coimbatore - 641012. Ph: +91 422-4349207 | +91 9600 984 984

Email: info@abiletechnologies.com

Date: 22.05.2017

# TO WHOM SO EVER IT MAY CONCERN

This is to certify that Ms. ASHWINI .B doing B.SC (IT) at Dr. N.G.P. Arts and Science College, Coimbatore has successfully completed her Internship Training on "WEB DEVELOPMENT" in our concern for the period starting from 07.05.2018 to 22.05.2018.

We wish all the best for her future endeavours.

For Abile Technologies,

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Email: info@abiletechnolgies.

Date: 24.05.2018

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. DHARANI .S pursuing B.Sc (IT) at, Dr. N.G.P Arts & Science College, Coimbatore, has successfully completed her Internship Training on "WEB DEVELOPMENT" in our concern for the period starting from 09.05.2018 to 24.05.18.

We wish all the best for her future endeavours.

For Abile Technologies,

(HR-Management)

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Email: info@abiletechnolgies.α

Date: 24.05.2018

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. JANCY RANI .R pursuing B.Sc (IT) at, Dr. N.G.P Arts & Science College, Coimbatore, has successfully completed her Internship Training on "WEB DEVELOPMENT" in our concern for the period starting from 09.05.2018 to 24.05.18.

We wish all the best for her future endeavours.

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Ph: +91 422-4349207 | +91 9600 98
Email: info@abiletechnolgies

Date: 24.05.2018

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. KAVYA .P pursuing B.Sc (IT) at, Dr. N.G.P Arts & Science College, Coimbatore, has successfully completed her Internship Training on "WEB DEVELOPMENT" in our concern for the period starting from 09.05.2018 to 24.05.18.

We wish all the best for her future endeavours.

For Abile Technologies,

(HR-Management)

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Date: 22.05.2018

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. REMYA .M pursuing B.Sc (IT) at, Dr. N.G.P Arts & Science College, Coimbatore, has successfully completed her Internship Training on "Java" in our concern for the period starting from 07.05.2018 to 22.05.18.

We wish all the best for her future endeavours.

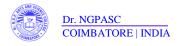
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Email . info@abiletechnolgies.com

Date: 22.05.2017

### TO WHOM SO EVER IT MAY CONCERN

This is to certify that Ms. SANDHIYA .R doing B.SC (IT) at Dr. N.G.P. Arts and Science College, Coimbatore has successfully completed her Internship Training on "WEB DEVELOPMENT" in our concern for the period starting from 07.05.2018 to 22.05.2018.

We wish all the best for her future endeavours.

For Abile Technologies,

(HR-Management) ABILE TECHNOLOGIES
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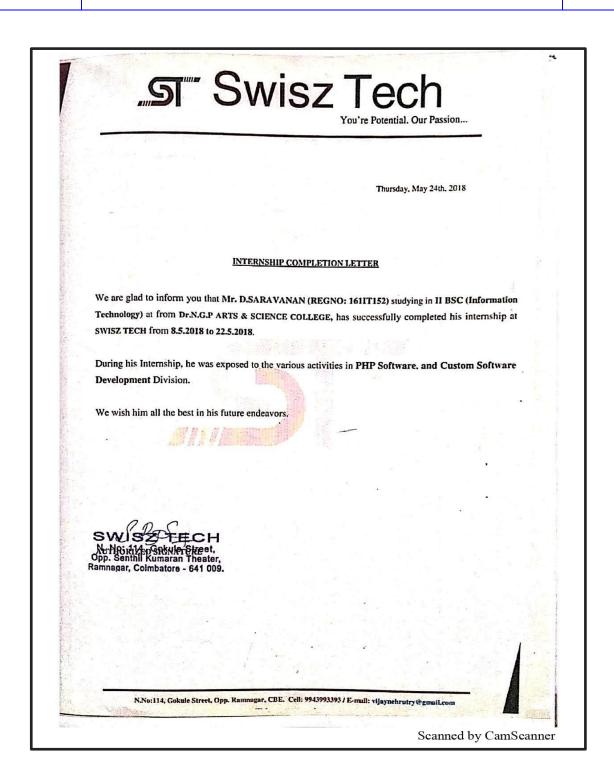
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Swisz Tech

Thursday, May 24th, 2018

#### INTERNSHIP COMPLETION LETTER

We are glad to inform you that Mr. K.SIVACHANDRU (REGNO: 161IT153) studying in II BSC (Information Technology) at from Dr.N.G.P ARTS & SCIENCE COLLEGE, has successfully completed his internship at SWISZ TECH from 8.5.2018 to 22.5.2018.

During his Internship, he was exposed to the various activities in PHP Software, and Custom Software Development Division.

We wish him all the best in his future endeavors.

N. No: 114, Gokule Street,
Opp. Senthil Kumaran Theater,
Ramnagar, Coimbatore - 641 009.





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3rd Cycle

Criterion III Metric 3.7.1



Thursday, May 24th, 2018

#### INTERNSHIP COMPLETION LETTER

We are glad to inform you that Mr. T.THAMARAI SELVAN (REGNO: 161IT159) studying in II B (Information Technology) at from Dr.N.G.P ARTS & SCIENCE COLLEGE, has successfully completed internship at SWISZ TECH from 8.5.2018 to 22.5.2018.

During his Internship, he was exposed to the various activities in PHP Software, and Custom Software Development Division.

We wish him all the best in his future endeavors.

AUTHORIZED SIGNATURE
SWISZ TECH
N. No: 114, Gokule Street,
Opp. Senthil Kumaran Theater,





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Ref: HTPL/ICC/012/2018

Date: 24/05/2018

# INTERNSHIP COMPLETION LETTER

This is to certify that Mr. M.P. AKASH, S/O- Mr. S.M. PARTHIPAN, a student of BSC (Information Technology - summer semester), at from Dr. N.G.P. ARTS & SCIENCE COLLEGE has successfully completed 02 (Two) Weeks (From 8th May, 2018 to 22<sup>nd</sup> May, 2018) Short internship programme at Hexa Innovation Lab.

During the period of his internship programme he was exposed to the various activities in **Asp.net development** with RFID devices in our IoT division and found that he was punctual, hardworking and inquisitive.

We wish him great success in life.

For, HexaHash Technologies PVT.LTD.

Kuner

Authorized Signatory





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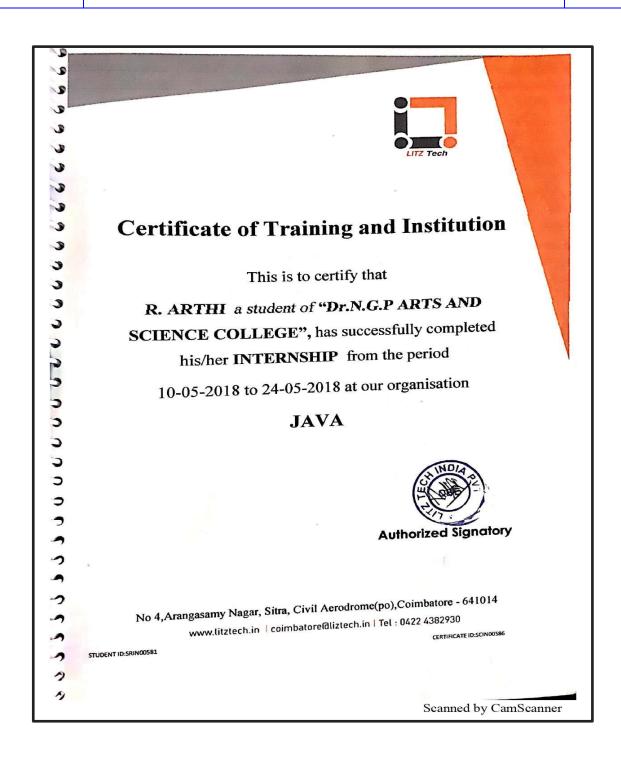
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3	DAGSWARE	+91 422 6564572 / +91 99949 23630
3		
.9		Reference No: Intern / 57/2018
3		DATE : 18/05/2018
3		
3	TO WHOMSOEVER IT MAY CONCERN	
3		
	This is to certify that Ms. T. DIVYAL	AKSHMI ( Roll No: 1611T018), Bachelor of
9	Science in Information Technology Department Student of the "Dr. N.G.P. Arts and	
3	Science College , Coimbatore" has recognized to do his internship in "Application	
3	Development using DotNet Technology" in our concern from the period of	
3	07/05/2018 to 18/05/2018.	
•		
	During the training, she has performed excellent in all terms of company	
	regulations with hard work, sincerity, perseverance and diligence. We wish a	
	great endeavor for her carrier.	
(		
	for Dagsware,	
	HR Manager	
1		
i	Software Development   Web Designing   Web Hosting   Mobile Application   Research & Development	
	Software Development   Web Designing   Web F	US Address :
,	Regd. Office: 4/16, Union Road, Kavundampalayam, Coimbatore - 641 030, Tamilnadu, INDIA. Tel: +91-422 - 4336148, Fax:+91-422 - 4336148	2600, Ventura Drive, Apt # 1212, Plano , Texas 75093. Mobile : +1 847 505 5502
5 .		Scanned by CamScanner



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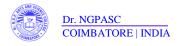
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DAGSWARE

+91 422 6564572 / +91 99949 23630

www.dagsware.com/ nfo@dagsware.com

Reference No: Intern / 55/2018

DATE : 18/05/2018

#### TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. S. HARIESWARAN (Roll No: 161IT024), Bachelor of Science in Information Technology Department Student of the "Dr. N.G.P. Arts and Science College, Coimbatore" has recognized to do his internship in "Application Development using DotNet Technology" in our concern from the period of 07/05/2018 to 18/05/2018.

During the training, he has performed excellent in all terms of company regulations with hard work, sincerity, perseverance and diligence. We wish a great endeavor for his carrier.

for Dagsware,

Software Development | Web Designing | Web Hosting | Mobile Application | Research & Development

Regd. Office :

4/16, Union Road, Kavundampalayam, Coimbatore - 641 030, Tamilnadu, INDIA.

Tel: +91-422 - 4336148, Fax: +91-422 - 4336148

US Address:

2600, Ventura Drive, Apt # 1212, Plano , Texas 75093.

Mobile: +1 847 505 5502





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Date: 22.05.2018

### TO WHOM SO EVER IT MAY CONCERN

This is to certify that Mr. JOHN VICTOR .B doing BSC IT at Dr. N.G.P. Arts and Science College, Coimbatore has successfully completed his Internship Training on "WEB DEVELOPMENT" in our concern for the period starting from 07.05.2018 to 22.05.2018.

We wish all the best for his future endeavours.

For Abile Technologies,

Harishankar R ABILE TECHNOLOGIES (Director of Decapons)

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