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र्भगाभा हिठ्ठहा स्थित ह 25 லானிக்குவி அதும் கால் விக் சிலை குவிர் கல "Rango inter course." - ಎಂಪ್ರತೆಷ್ಟತ್ ಹಾತಿ ಪರಂ ಎಂಪರಾಶ್ ಹಾತಿ ಲಾಟ್ರಾಸ್ ಪ್ರಾಂಶವಾತಿ £ 5, 20, 200, 200? (220, 610 \$\$0. = 2 25 - 380 gen populat 25 2 28 2000 voto and முறும் வி வி கி or so bold is the source rosce and all and and the 300 びんんっ えかぶろうのの. -28 29 मा 27 20 20 20 20 20 202 202 குதுலை துது ஆக்கு குது குது குது குது குது tigh throws son estates the town the the JOST She - Propose - 23. 2010 1. -200 83 क ( 2 राग्य के 100 ( 100) के 100 ( 100 ) 200 ( 100 ) 200 กอ เมื่อสายก เอตุมี มีฮอออออก เอฮมือนี้ දීළුව ඔයලුම ඊටෙදැහා - බැට (සිට To pol 2002 ටැනුවා, n = ဆင် နိုဒ်စပ်တာန D = 1/2  $D = \pi O(\Sigma \Theta)$ a = 330010 t = jjau0000

4. Jan Jer 2 in Round and aurien GERROR TING JUNNWAN CONFRONTED GOD (చెల్ప్రైజిత్తి స్టోర్మ బాల్కం (ఎల్స్లోత్తి వళా రోడి లెయిట్స ටාටතා හිසි ඉසින හැක ක්ෂා ක්ෂා කියි හත ප්රීක්ෂය . ವರು ಎಂ ಎಂ கி கிற காவில் வால் கால கால Lo อาลoen เริ่าลอาม อามี 2. J. 0300 00 00 00 00 2 1 - ७उग्ठ*ॅ रु रु* दुव्हे = 20 माम में हैंक दार देखें कार में माम माम माम माम Jordan B. Stop Kongrupo advise BB 370 भूरुद्र एक मिन्द्र हिराहर हु हिराहर हे में हे हे हे हैं है के कि कि में है के कि 2552270 20000.

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Procasa - apres fortosave ? దిష్టుల్లో లాల్లో కారా రదారం లాల్లో క్రిక్రేత్రానా మార్గి Emplo Ropan, DON. KESUBP Onotware werk. Savedos - Prof. Beretor Ripp way Even 3 - 4800 342 ords - se Browner ्र उ०टवर क्रिंग उठा दाला ह 202 हेट में रहे राज्या राज्या ही राज्य ही ही है है है - 5103 25 TU On 2315 TUD 232 6 Dav Cin Sieres TOTE DUE UD FOR ON PEBADOR UNDEDTE ELOC - atunten\_ (~ protoph see tobsen, grow à Grap Jrog - 60000 20 monos 4.00,000 pore 600 202 plum - Bronopa きちょうえん ふん みっこうこう あのう (こえき え)のの えんてん? (השיל ביים אל הביוד ליכדה) 1. Xancores - 2000 - 20 ことのきます ふしんち しのう (これき えしんしんてんでのう (こみ) (app store antime Sun ardia 20200.



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# STUDENT'S STUDY PROJECT REPORT

DEPARTMENT OF BOTANY

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Academic Year 2021 - 22

Submitted

By B. Manjula 080-20-3001

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# STUDENT'S STUDY PROJECT REPORT

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Academic Year 2021 - 22

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### STUDENT'S STUDY PROJECT REPORT

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DEPARTMENT OF BOTANY



Academic Year 2021 - 22

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# STUDENT'S STUDY PROJECT REPORT

DEPARTMENT OF BOTANY.

TITLE: International efforte For conservation of Bio-diversity

Academic Year 2021-22

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Department of Botany Govt.Degree College, Yeliandu Bhadradri Kothagudem (Dist.) A

#### PROJECT REPORT

ON

#### ANALYSIS OFCOCONUT WATER



STUDENTS OF III B.SC (MPC&BZC)

#### GUIDED BY

P.Sarada M.SC , B.Ed

Government Degree college, YELLANDU.

DEPARTMENT OF CHEMISTRY

2021----2022

PRINCIPAL Govt. Degree College Yellandu Bhedradd Kolnagusari Bist

# QUALITATIVE ANALYSIS OF COCONUT WATER

#### REPORT

Coconut water is a natural, fat-free drink. Low in sugars and calories, it is rich in essential electrolytes and vitamins. Dubbed the "fluid of life", coconut is safe for everyone to drink fresh from the nut..

Once the coconut is opened, coconut water begins to lose its nutrients and flavours. This is partly due to naturally occurring enzymes found in coconut water. When peroxidase (POD) and polyphenol oxidase (PPO) come into contact with oxygen, reactions cause nutritional and flavour losses. This section covers the reactions that happen when coconut water is extracted and loses protection of the coconut's environment

#### COMPOSITION

Analytical studies have shown that coconut water contains nutrients such as glucose, amino acids and electrolytes such as potassium, calcium and magnesium ., it is important to recall the differences in the composition of coconut water obtained sterile from young (7-9 months)

The composition, physicochemical, PPO and POD enzyme activities are influenced by factors such as geographical location and variety. The compositional differences relate to the effects deterioration reactions have as well as the quality aspects of coconut water.

In general, young coconuts have higher sugar levels and total phenolic contents than mature coconuts. While mature coconuts have higher protein levels and pH values than young coconuts, the amount of minerals can also vary between young and mature coconuts. For example, the amount of potassium in coconut water increases as the coconut matures.

PHYSICOCHEMICAL PROPERTIES	COCONUT MATURITY STAGE (MONTHS)		
Total soluble solids ("Brix)	5.6	6.15	4.85
Titratable acidity <sup>1</sup> (%)	0.089	0.076	0.061
pН	4.78	5.34	5.71
Turbidity <sup>2</sup>	0.031	0.337	4.051
SUGAR CONTENT			
Fructose (mg/mL)	39.04	32.52	21.48
Glucose (mg/mL)	35.43	29.96	19.06
Sucrose (mg/mL)	0.85	6.36	14.37
MINERALS			
Potassium (mg/100mL)	220.94	274.32	351.10
Sodium (mg/100mL)	7.61	5.60	36.51
Magnesium (mg/100mL)	22.03	20.87	31.65
Calcium (mg/100mL)	8.75	15.19	23.98
Iron (mg/L)	0.294	0.308	0.322
Protein (mg/mL)	0.041	0.042	0.217

# **GOVERNMENT DEGREE COLLEGE**

# YELLANDU



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#### **STUDENT'S STUDY PROJECT**

#### **Department of English**

#### **Title:**THE USE OF ICT TOOLS IN LEARNING ENGLISH LANGUAGE

#### Academic Year:2021--22

#### Submitted

By

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Signature of the Lecturer



#### Government Degree College, Yellandu

(Affiliated to Kakatiya University, Warangal) Department of English Bhadradri Kothagudem Dist, Telangana State



#### DECLARATION

We, the students of Government Degree College, Yellandu declare that the work presented in this study project is original and carried throughout by us.

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Place : Yellandu

Date:



## Government Degree College, Yellandu

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#### CERTIFICATE

Certified that this is a bonafide study project of the students from Department of **English**, Government Degree College, Yellandu. I congratulate the students for carrying out a wonderful study project.

Place : Yellandu Date :

Ch Assistant Professor/Lecturer

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Govt. Degree College Yellandu Bhadradri Kothagudem Dist.

## Acknowledgement

We, the students of study project, express our gratitude to **Dr.P.Padma**, Principal, Government Degree College, Yellandu for providing the facilities required for this work, and for giving valuable suggestions and encouragement throughout the project work.

We are thankful to Sri.Thodeti Raju, Lecturer in English of ,Government Degree College, Yellandu for motivating and inspiring us in bringing out this work.

We are extremely grateful to all the lecturers and students for their opinion and timely suggestions.

# THE USE OF ICT TOOLS IN LEARNING ENGLISH LANGUAGE



# YELLANDU

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# STUDENT STUDY PROJECT

## ACADEMIC YEAR 2021-2022

# DEPARTMENTOF MATHEMATICS



#### COMMISSIONERIATE OF COLLEGIATE EDUCATION-HVDERABAD-TS.

GOVERNMENT DEGREE COLLEGE VELLANDU BHADRADRI KOTHAGUDEM DT.



## DEPARTMENT OF MATHEMATICS

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SIGN OF THE LECTURER



P. Pader

PRINICIPAL Principal Govt. Degree College Subject or su CP) Velland

# THE METHOD OF VARIATION OF \*

=> Abstract :

The method of Variation of parameters is studied in detail with investration we obtain the particular solution to non - homogeneous differential equation using the method of variation parameters. Some of applications of the method are given.

=> Introduction :

=> Analysis has been The clominont branch of mathematics too 300 years and differential equations are The heart of analysis This subset is The hotural goal of elementary caculs and The most impostant part of mathematics too understanding The physical science.

of differntial equations is to sorve as a tool too The study of change in The physical wordd. There is an old Amenian saying the who locks a sence of The pool is condern ned to live in The harrow darkness of his own generations.

=> Mathematics Without history is mathematics stripped of its greatness. too like The. othere and of Civilization. it derives its and grandewi trans The fad of being a human Creation.

=> An equation involving one dependent vasible and its derivatives with respect to one or more independent vasibles is called a dittential equation many of The general laws of hatwie - in physics chemistry, biology, and astronomy - tind Their most natural expression in The language of differential equations. Applications also abound in mathematics it sett, especially in geomentary, and in engince ring, economics, and many othere tields of applied Science.

=> An ordinary differential equation is one in which There is only one independent variable. So That all The derivatives occursing in it are ordinary derivatives, each of These equations is ordinary, The order of a differitial equation is The order of the highest derivation present. => A partial differential equation is one involving more Than one independent

varible. So that the derivaties occurring in it are partial derivatives.

=> The cum of current prosect is to solve non-homogeneous differential equation using the method of variation of parameters " some of the application so the method are illustrated in This project." The technicity described in section 18. For determining a particular solution at The non-homogeneous squation

# $y'' + p(\alpha)y' + \Theta(\alpha)y = R(\alpha)$

=> has two severe limitations: it can be used only When the coefficients p(x) and a(x) are constants and even then it works only When the right hand term R(x) has a particulary simple torm with in These limitations however this procedure is usally the casical to apply.

-tul method that alway works -regardless of the hature of P. Q. R. - provided only that the general solution of the corresponding homogeneous countion.

# y"+ p(x)y + Q(x)y = 0

=> is already known, we assume. Them. That is some way The general Solution.

# $y(\alpha) = c_1 y_1(\alpha) + c_2 y_2(\alpha)$

⇒ OF(2) has been found the method is similar to that discussed in Section 16; That is, we replace The constants (, and (2 by unknown functions v(x) and v2(2), and attern pt to determine v, and v2 in Such a manner That

y = V, y, + Y2 y2

=> Will be a Bolution of (1) with two unknown tunctions to tind, it will be becessary to have two equations relating These tunctions, we obtain one of These by requiring That (4) be a Bolution of (1). It will Boon be clear What The Second equation should be we begin by computing The derivative of (4). arranged as tollows.

# y'= (v, y, +v, y) + (v, y, +v, y)

=> AnoTher di-Heren-fiation will introduce second derivations of The unknowns v, and v2, we avoid This complications by requiring The second expression in paren These to Vanish.

$$V_{1}y_{1} + V_{2}y_{2} = 0$$

=> This gives.

$$y' = v_1 y_1' + v_2 y_2$$
  
 $y'' = v_1 y_1' + v_1 y_1 + v_2 y_2' + v_2 y_2'$ 

on substituting (4), (7), (8), into (1), and reasoninging we get

since y, and y2 are Solutions of (2) The two expressions in parentheses are equal to, 0, and (9) collapses to.

$$V_{1}y_{1} + V_{2}y_{2} = R(x)$$

Taking (6) and (10) together, we have two equations in two unknows villand V2  $V_1 y_1 + V_2 y_2 = 0$  $V_{1}' y_{1}' + V_{2}' y_{2} = R(x)$ These can be solved at once giving. V1 = - Y2 R(X) (41.42)  $V_2 = y_1 R(x) / W(y_1, y_2)$ => It should be hoted That These tormulas are legitimate tor The wronskian in The denominators All That remains is to integrate tormulas (11) to find VI and V2. V1= J-y2 R(x) dx and V2= Jy, R(x) dx We can now put everything together and assert That  $\gamma = \gamma_1 \int -\gamma_2 R(x) dx + \gamma_2 \int \gamma_1 R(x) dx$ is the particular solution of (1) we are seeking => The reader will see That This method has disodvantages of its own. In particular, The integrals in (12) many be different or impossible to work out . Also . I of course it is necessary to work know The general Solution of (2) before The process can even be started but This objection is really immaterial because we are unlikely to

and a bout finding a particult solution of (1) unless the general solution of a is already at hand. The method variation of parameters was invented by the French mathematician Lagrange in connection with his epoch - marshing work I in analytical mechanics. Example 1: => The corresponding homogeneoss equation y +y = 0 has y(x) = ci sinoc + 10, cosx as its general solution. so y, = sinx., y' = cosx, y\_= cosx. and y' = - since The wronskian of y, and y' is.  $W(Y, Y_2) = Y_1 Y_2 - Y_2 Y_1 = -Sin x - cos x = -1$ So by (12) we have. V1 = (-cosoc . cosoc /- doc.  $v_1 = \int \cos x / \sin x \, dx$ VI = log (sinx) Y2 = [ sinx · (scx/-1 d)(. Y2 = -X. Accordingly ; y = sinx log (sinx) -x cosx. Is The desired particular Jolution.

Application of the method

=> The method has so many advantages in solving The differential equations in \* vibratiant in mechanical and eletrical systems. \* un damped simple harmonic vibrations. \* Damped vibrations.

\* Forced vibrations.

Results and discussion

=> The method of Variation of parameters is discussed in detail, The Solution to a nonhomogeneous differential equation is obtained in This study project, Applications are discussed. References

1, GIF. Simmons, Dittential equation with application and historical Haty", TATA MCGIRAW - HILLEDITION.

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# STUDENT'S STUDY PROJECT REPORT

# DEPARTMENT OF PHYSICS

## **Physics principles in house-hold Equipment**

# Academic Year 2021-2022

Submitted

By

S.No.	Name of the student	Class/Group	Roll No.
1	G Anjali	III B.Sc	080204101
2	V Niharika	III B.Sc	080204102
3	K Sadhana	II B.Sc	080214002
4	D Sravani	II B.Sc	080214102
5	G Sukanya	II B.Sc	080204103

Signature of the Principal

Signature of the Lecturer

#### Government Degree College, Yellandu



(Affiliated to Kakatiya University, Warangal)

Department of English



Bhadradri Kothagudem Dist, Telangana State

#### DECLARATION

We, the students of Government Degree College, Yellandu declare that the work presented in this study project is original and carried throughout by us.

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1	G Anjali	III B.Sc	080204101
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Signature of the Lecturer

Signature of the Principal

Place : Yellandu

Date:

Dr.P.Padma M.Sc., Ph. D., Principal Govt Degree College Yellandu



BhadradriKothagudem Dist, Telangana State email:gdcyellandu.jkc@gmail.com Accredited by NAAC with 'B' Grade

#### CERTIFICATE

Certified that this is a bonafide study project of the students from Department of Physics, Government Degree College, Yellandu. I congratulate the students for carrying out a wonderful study project.

Place : Yellandu Date : 11/12/2021

K Kiran Kumar Assistant Professor/Lecturer Dr P Padma Principal

#### Acknowledgement

We, the students of study project, express our gratitude to Dr. P Padma Principal, Government Degree College, Yellandu for providing the facilities required for this work, and for giving valuable suggestions and encouragement throughout the project work.

We are thankful to Sri K Kiran Kumar Assistant Professor in Physics , Government Degree College, Yellandu for motivating and inspiring us in bringing out this work.

We are extremely grateful to all the lecturers and students for their opinion and timely suggestions.



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#### CERTIFICATE

Certified that this is a bonafide study project of the students from Department of **POLITICAL** SCIENCE Government Degree College, Yellandu. I congratulate the students for carrying out a wonderful study project.

S.No.	Name of the student	Class/Group	Roll No.
1	T: Ashok	BA	080301426
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Principal PRINCIPAL Govt Degree College Yellandu

Place : Yellandu

Date :

# Government Degree College, Yellandu



(Affiliated to Kakatiya University, Warangal)

Department of POLITICAL SCIENCE



Bhadradri Kothagudem Dist, Telangana State

## Acknowledgement

We, the students of study project, express our gratitude toDr.P.Padma, Principal, Government Degree College, Yellandu for providing the facilities required for this work, and for giving valuable suggestions and encouragement throughout the project work.

We are thankful to Sri K.RAJITHA, lecturer in **POLITICAL SCIENCE**, Government Degree College, Yellandu for motivating and inspiring us in bringing out this work.

We are extremely grateful to all the lecturers and students for their opinion and timely suggestions.

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Presses 612) විවේද ගැනිගෙන හිදි රිවේද්දරි ක්ලේ (ක්රීණ් "ක්ට" - 63 (කක්ටගෙන් (ක්. 3. 189) ක්රීමට 145 හවටගැක්ග කරුණ් පෙරැසි කක්ෂී ක්රේන්ට ක්රීමට 145 හවටගැක්ග කරන් පෙරැසි කක්ෂී ක්රීමට ක්රීම ක්රීමට ක්රීමට ප්රතාන්ත කරන්න ගැනීම ක්රීමට ක්රීම ක්රීමට ක්රීම ප්රතාන්ත කරන්න ගැනීම ක්රීමට ක්රීමට ක්රීමට ක්රීම ක්රීමටත් කරන්න 2.5 (2005 ක්රීමට ක්රීමට ක්රීමට ක්රීම ක්රීමටත් කරන්න 2.5 (2005 ක්රීමට ක්රීමට ක්රීමට ක්රීමට ක්රීමටත් කරන්න 2.5 (2005 ක්රීමට ක්රීමට ක්රීමට ක්රීමට ක්රීමටත් ක්රීමට ගැනීම් ක්රීමටක් ක්රීමට ක්රීමට ක්රීමට ක්රීමටත් ක්රීමට ක්රීමටක් ක්රීමටක් ක්රීමට ක්රීමට ක්රීමටත් ක්රීමට ක්රීමටක් ක්රීමටක් ක්රීමට ක්රීමට ක්රීමට ක්රීමටක් ක්රීමටක් ක්රීමටක් ක්රීමට ක්රීමට ක්රීමටක් ක්රීමටක් ක්රීමටක් ක්රීමටක් ක්රීමට ක්රීමට ක්රීමටක් ක්රීමටක් ක්රීමටක් ක්රීමටක් ක්රීමට ක්රීමට ක්රීමටක් ක්රීමටක් ක්රීමටක් ක්රීමටක් ක්රීමටක්රී

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శత భారియ చరితనె అంచేవొంగ్ జారి నమ్రోక్రతకు దూశత వర్గాల చలి సంఘ చనుశర్శకు వరెవ్వరం చేయరేనంతనా డొరావు కృషి, నుపారు, గ్రాకెస్, 6యిషరి లళ్లుక్ మంటి మజనానము బానిస నిజా చాకుల కానం నం, 6మెరికెళ ను చేసిన బూరింత కా పొరాటలపా అంజేవోహ్ భారత సుశర్శకు నఓపై ఉద్యమం సమానమైనది. జేవుర్ షేటు కాట్లది జ్యాత డుడల ఆరాధ్యప్రేమం. చండితే నెడ్డు షేట్ల ఓందం సమాడండి " పొటి శక్తులపై ఆచున శుక విష్యవార్తంతు

\* References 1. Telugue Academy Text Book.



