



WMO ARTS & SCIENCE COLLEGE

"education and some more"

Affiliated to University of Calicut

(Aided by Govt. of Kerala)

P.O. MUTTIL, WAYANAD, KERALA - 673122

Phone : 04936-203382 (Office)

04936-207532 (Principal)

e-mail : wmocollege@gmail.com

website: WWW.wmocollege.ac.in

CRITERIA-II

TEACHING-LEARNING AND EVALUATION

2.2.1 - Special Programs for Advanced Learners and Slow Learners



WMO ARTS & SCIENCE COLLEGE

"education and some more"

Affiliated to University of Calicut

(Aided by Govt. of Kerala)

P.O. MUTTIL, WAYANAD, KERALA - 673122

Phone : 04936-203382 (Office)

04936-207532 (Principal)

e-mail : wmocollege@gmail.com

website: WWW.wmocollege.ac.in

Special Programmes for Advanced and Slow Learners

Students admitted to a particular UG or PG courses have different educational background and have varied learning capacity depending on their socio economic and cultural background. So, the institute device a special mechanism to identify the learning levels of students admitted.

Identification of Learning Levels

Marks obtained by the students for the qualifying examinations cannot be used solely for the identification of different learning levels as they are from different boards and the evaluation strategies are different for different boards. So, after completing the admission process entry level tests are conducted for each programme by the respective departments. The tests are devised to assess the level of students in the prerequisite topics for the respective programme and their capacity to grasp the domain knowledge. Based on the marks obtained, students are categorized as slow learners and advanced learners. Along with this, classroom experiences and continuous evaluation of the students are used for further assessment of the type of learning.

Strategies for Handling Different Levels

The institute takes utmost care for not having a psychological division among students in categorizing them. Special courses are carefully designed and imparted by the respective departments to bridge the gap between slow learners and advanced learners at the beginning of the programmes. Apart from this, many programmes are conducted for the different levels of students to enhance their potential. Based on entry level test, classroom performance and continuous internal assessment activities different common and domain specific strategies are devised for curricular transaction for providing better learning experience. The institute has a well-designed mentoring system which also helps the institute to identify the level of support required by the diverse category of students.

Special Programs for Advanced Learners

- Regular academic presentations, Debates, panel discussions, etc. are conducted to help the students to come out with innovative ideas
- Motivate and extend support to take part in various competitions, entrance examinations, conferences, Seminars, Workshops, etc.
- The institute conducts industrial visits, prestigious institute visit, field visits and promotes internships among students
- Interaction with eminent personalities in the respective fields



WMO ARTS & SCIENCE COLLEGE

"education and some more"

Affiliated to University of Calicut

(Aided by Govt. of Kerala)

P.O. MUTTIL, WAYANAD, KERALA - 673122

Phone : 04936-203382 (Office)

04936-207532 (Principal)

e-mail : wmocollege@gmail.com

website: WWW.wmocollege.ac.in

- Seminars, Workshops, and invited talks are conducted by different departments
- Additional assignments on more challenging topics
- Career Orientation Program and Coaching for competitive examinations like JAM, NET, PSC, SSC, University Entrance Examinations, etc.
- Promotes extended library usage
- Peer teaching to slow learners

Apart from these, various intra and inter departmental student centric activities such as written magazine, Weekend book review, Mathematical Circle, Mathematical problems contests, software development are conducted for enhancing multidisciplinary skill of the students.

Special Programs for Slow Learners

Remedial and additional classes

- Remedial and additional classes are given with individual and collective attention to help them to acquire desired course / program outcome
- Staff mentors guide them to identify and overcome the learning difficulties
- Bridge courses
- Adaptive teaching techniques

Peer learning from advanced learners

- Pair them with brighter students in group activities
- Group discussions
- Problem solving sessions

Additional study materials are provided

- Additional assignments
- Improvement exams are conducted so that they are given a chance.
- Developing self-learning materials
- Comprehensive Question bank

Tutorial hour activities

Tutorial hours are utilized effectively by conducting following activities for enhancing leaning abilities of the students

- Word puzzle and Reading competition
- Report writing practice



WMO ARTS & SCIENCE COLLEGE

"education and some more"

Affiliated to University of Calicut

(Aided by Govt. of Kerala)

P.O. MUTTIL, WAYANAD, KERALA - 673122

Phone : 04936-203382 (Office)

04936-207532 (Principal)

e-mail : wmocollege@gmail.com

website: WWW.wmocollege.ac.in

- Listening commentaries and stories in Arabic and English Languages
- Mathematical circle
- Newspaper quiz are conducted to keep the students on track of the general happenings around
- Doubts and personal difficulties regarding the subjects are also addressed

Equal Opportunity Cell / Edu Support

Support diverse needs of learners in respect to their socio economic and cultural background.



WMO ARTS & SCIENCE COLLEGE

"education and some more"

Affiliated to University of Calicut

(Aided by Govt. of Kerala)

P.O. MUTTIL, WAYANAD, KERALA - 673122

Phone : 04936-203382 (Office)

04936-207532 (Principal)

e-mail : wmollege@gmail.com

website: WWW.wmollege.ac.in

SUPPORTING DOCUMENTS

1. Model Question Papers of Entry Level Test Conducted by various departments

Entry level test for MSc Electronics Programme 2020- 21 Admission	
Total Marks: 25	Time: 30 minnets
<p>1. Common-emitter amplifier has voltage gain, current gain, power gain and input impedance. (A) high, low, high, low (B) high, high, high low (C) low, low, low, high (D) low, low, high, high</p> <p>2. Addition of pentavalent impurity to a semiconductor creates many (A) free electrons (B) holes (C) valence electrons (D) bound electrons</p> <p>3. A Zener diode is used as (A) an amplifier (B) a voltage regulator (C) a rectifier (D) a multivibrator</p> <p>4. The value of α of a transistor is (A) more than 1 (B) less than 1 (C) 1 (D) None of the above</p> <p>5. In an LC circuit, when the capacitor is maximum, the inductor energy is (A) minimum (B) maximum (C) half-way between maximum and minimum (D) None of the above</p> <p>6. In a phase shift oscillator, the frequency determining elements are (A) L and C (B) R, L and C (C) R and C (D) None of the above</p> <p>7. An LC oscillator cannot be used to produce frequencies (A) high (B) audio (C) very low (D) very high</p> <p>8. A galvanometer in series with a high resistance is called (A) an ammeter (B) a voltmeter (C) a wattmeter (D) None of the above</p> <p>9. If modulation is 100%, then signal amplitude is carrier amplitude (A) equal to (B) greater than (C) less than (D) None of the above</p> <p>10. A high Q tuned circuit will permit an amplifier to have high (A) fidelity (B) frequency range (C) sensitivity (D) Selectivity</p> <p>11. A UJT has (A) two p-n junctions (B) one p-n junction (C) three p-n junctions (D) None of the above</p> <p>12. The h_{ie} parameter is called in CE arrangement with output shorted (A) voltage gain (B) current gain (C) input impedance (D) None of the above</p> <p>13. The common-mode gain is (A) very high (B) very low (C) always unity (D) unpredictable</p> <p>14. Which of the following is not Ohm's law? (A) $V = IR$ (B) $I = V/R$ (C) $R = IV$ (D) $R = VI$</p>	<p>15. What happens to current and resistance if the voltage doubles? (A) Current doubles and resistance doubles. (B) Current doubles and resistance is halved. (C) Current remains the same and resistance doubles. (D) Current doubles and resistance remain the same.</p> <p>16. Which of the following bridges measures the dc resistances? (A) Wheatstone (B) Maxwell bridge (C) Hay bridge (D) Schering bridge</p> <p>17. Emitter follower is used for (A) current gain (B) impedance matching (C) voltage gain (D) None of the above</p> <p>18. The positive clipper is that which removes the half-cycles of the input voltage. (A) negative (B) positive (C) both positive and negative (D) None of the above</p> <p>19. In a oscillator, we have feedback. (A) negative (B) 100% positive (C) both positive and negative (D) None of the above</p> <p>20. An oscilloscope provides easy measurement of values (A) instantaneous (B) rms (C) peak to peak (D) average</p> <p>21. There are h parameters of a transistor (A) two (B) four (C) three (D) None of the above</p> <p>22. A transistor behaves as a linear device for (A) small signals only (B) large signals only (C) both small and large signals (D) None of the above</p> <p>23. A zero-level detector is a (A) comparator with a sine-wave output (B) comparator with a trip point referenced to zero (C) peak detector (D) limiter</p> <p>24. The maximum efficiency of full wave rectification is (A) 40.6% (B) 100% (C) 81.2% (D) 85.6%</p> <p>25. In the circuit shown below, the voltage across the 15-ohm resistor is</p> <div style="text-align: center;"><pre>graph LR I((10A)) --- R1[10Ω] R1 --- Node1(()) Node1 --- R2[10Ω] Node1 --- R3[15Ω]</pre></div> <p>(A) 10 V (B) 60 V (C) 100 V (D) 150 V</p>



WMO ARTS & SCIENCE COLLEGE

"education and some more"

Affiliated to University of Calicut

(Aided by Govt. of Kerala)

P.O. MUTTIL, WAYANAD, KERALA - 673122

Phone : 04936-203382 (Office)
04936-207532 (Principal)

e-mail : wmo college@gmail.com

website: WWW.wmo college.ac.in

WMO ARTS AND SCIENCE COLLEGE, MUTTIL

DEPARTMENT OF ARABIC

ENTRY LEVEL TEST-2020

MARKS = 25

1 HOURS

1. من أين يا حسن ؟
هو هو هي هي
2. كم عندك ؟
إخوة إخوات أخوات أخ
3. كيف يا محمد ؟
بخير أهلاً صباح الخير حالك
4. هي جميلة
بنات ولد مدرس طبيب
5. عندي سيارة
أبيض أحمر جديدة قديم
6. أشهر طويلاً
هي هنا هذه أنا
7. أنا في لندن .
بيت عمل وسط ساكن
8. أنا اللغة العربية .
أكل أقرأ أصل أدرس
9. زوجتي ليلى .
اسمه اسم اسمها هي
10. هذا كتاب و صورة .
هنا هذه هو أنا
11. كم تدرس عربي في اليوم ؟
مرة ساعة شهر أسبوع

12. أين الولد ؟
الولد على المدرسة الولد بين المدرسة الولد في المدرسة الولد تحت المدرسة
13. سير الشاي
تترب تترب يترب يترب
14. منافح إلى الكويت
أول أس أول أس نقل يومين بدد
15. أنا رسالة لصديقي أس .
زرت أكتب أكتب درست
16. بيروت مدينة
جميل كبير جميلة صغير
17. القاهرة مدينة في الشرق الأوسط .
كبير أكثر صغير وسط
18. صديقي عنده ثلثة
مبارك دراجة سيارة باض
19. الرجل الأخير مساء أس .
ترب كبر فتح سمع
20. جلس الفلاح الشجرة .
أمام تحت وراء فرق
21. وصل الطالب المدرسة مبكراً .
إلى على ب و
22. الرجل الحزين من السوق في الصباح
باع خرج نزل اتتربى
23. كان الطالب الجديد
أجهاد جهاد مجهولاً مكنياً
24. كان تقرير الوزير الجديد
جداً قريباً موجهوا الجيد
25. السفر الجديد في الشهر القادم .
وصل وصول وأسل يصل



WMO ARTS & SCIENCE COLLEGE

"education and some more"

Affiliated to University of Calicut

(Aided by Govt. of Kerala)


P.O. MUTTIL, WAYANAD, KERALA - 673122

Phone : 04936-203382 (Office)

04936-207532 (Principal)

e-mail : wmollege@gmail.com

website: WWW.wmollege.ac.in

<p>DEPARTMENT OF PHYSICS WMO ARTS & SCIENCE COLLEGE, MUTTIL</p>  <p>Cognitive Skill Test</p> <p>Name of the student: _____</p> <p>Class: _____</p> <p>Register No: _____</p> <p>*</p>	<p style="text-align: right;">PART-I (5 Minutes to read paragraph)</p> <p style="text-align: center;">(Read the paragraph and answer the six questions given below.)</p> <p>1. Which of the following is the name of the Earth's galaxy?</p> <p>A: Milky Way B: Singularity C: Supernova D: Solar system</p> <p>2. Which of the following is NOT true about a black hole?</p> <p>A: It emits a lot of light. B: It won't allow light to escape. C: Its gravity gets stronger as it sucks in more material. D: It occurs when a star gets old and implodes.</p> <p>3. Which of the following scientists invented the name "black hole"?</p> <p>A: Albert Einstein B: Stephen Hawkings C: John Michel D: John Archibald Wheeler</p> <p>4. Which of the following causes a black hole to pull in matter? *</p> <p>A:A: Gravity B: X-rays C: Supernova D: Light</p> <p>5. Which of the following is the largest type of black hole?</p> <p>A: Stellar-mass B: Supermassive C: Supernova D: Singularity</p> <p>6. Which of the following is the name of the center of a black hole?</p> <p>A: Horizon B: Milky Way C: Inner Event D: Singularity</p>
---	---



WMO ARTS & SCIENCE COLLEGE

"education and some more"

Affiliated to University of Calicut

(Aided by Govt. of Kerala)

P.O. MUTTIL, WAYANAD, KERALA - 673122

Phone : 04936-203382 (Office)

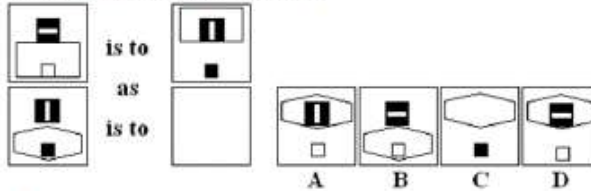
04936-207532 (Principal)

e-mail : wmollege@gmail.com

website: WWW.wmollege.ac.in

PART-II

1. Identify which figure completes the statement.



- A
- B
- C
- D

2. Which of the following words is the opposite of "certify"?

- VERIFY
- VINDICATE
- ATTEST
- GRATIFY
- DISPROVE

3. CHAPTER is to BOOK as ___?___ is to MONTH

- Day
- Year
- Week
- Calendar
- Schedule

4. 320 people are travelling in an airplane. 150 of them understand English and 122 others understand French. The rest cannot understand either of these languages. What is the percentage of passengers who can neither understand English nor French?

- 15%
- 13%
- 14%
- 12%
- 17%

W M O Arts & Science College

Department of Mathematics

Entry level test 2020-21

Each question carries 2 marks

For B.Sc Mathematics students 2020-21

1. The ratio of the two numbers is 4:7 and their HCF is 6. Find out their LCM
2. The ratio of two numbers is 3:4 and their sum is 560. What is the larger number
3. An old man gave away $\frac{1}{5}$ th of his property to Ram, $\frac{1}{3}$ rd of the remaining to Shyam and $\frac{1}{2}$ of the remaining to Geeta. How much part he is left?
4. What is the number of diagonals of a polygon with n sides?
5. Six pipes can fill the tank in 1 hour and 20 minutes. How much time in minutes it will take it to fill by 5 pipes.
6. If the number 345234X is divisible by 9, then what is the value of X?
7. What is the area of the sector formed by a radius of 10 cm with a 36-degree angle at the center?
8. How many 10 digits numbers can be written by using the digits 1 and 2?
9. In a meeting each person shook hands with all others. A total of 190 handshakes were done. How many people were there at the meeting?
10. The function $f: \mathbb{R} \rightarrow \mathbb{R}$ defined by $f(x) = x^2$ is -----, (a) One to one and onto (b) One to one but not onto (c) onto but not one to one (c) not one to one and not onto.



WMO ARTS & SCIENCE COLLEGE

"education and some more"

Affiliated to University of Calicut

(Aided by Govt. of Kerala)

P.O. MUTTIL, WAYANAD, KERALA - 673122

Phone : 04936-203382 (Office)

04936-207532 (Principal)

e-mail : wmocollege@gmail.com

website: WWW.wmocollege.ac.in

2. Model List of Advance Learners and Slow Learners prepared

Advanced Learners				
Slow and Advanced Learners - Department of Physics_2019 admission				
Roll No	Reg. No	Name	Marks (20)	Category
41	WMATSPH041	ADARSH	18	Advanced Learners
33	WMATSPH033	ADARSH	15	Advanced Learners
43	WMATSPH043	MUHAMMAD MUHAMMAD	15	Advanced Learners
1	WMATSPH001	FATHIMA NISMA	14	Average Learners
5	WMATSPH005	MUHAMMED FARUQ	14	Average Learners
7	WMATSPH007	MUHAMMED MURSHID	14	Average Learners
25	WMATSPH025	ABHIRAM	14	Average Learners
28	WMATSPH028	ABHIRAM	14	Average Learners
38	WMATSPH038	ADIL MUHAMMED IK	14	Average Learners
4	WMATSPH004	ABHIRAM	13	Average Learners
6	WMATSPH006	MUHAMMED MURSHID	13	Average Learners
8	WMATSPH008	ABHIRAM	13	Average Learners
12	WMATSPH012	ABHIRAM	13	Average Learners
18	WMATSPH018	ABHIRAM	13	Average Learners
17	WMATSPH017	ABHIRAM	13	Average Learners
20	WMATSPH020	ABHIRAM	13	Average Learners
31	WMATSPH031	ABHIRAM	13	Average Learners
39	WMATSPH039	ABHIRAM	13	Average Learners
3	WMATSPH003	ABHIRAM	12	Average Learners
10	WMATSPH010	ABHIRAM	12	Average Learners
15	WMATSPH015	ABHIRAM	12	Average Learners
19	WMATSPH019	ABHIRAM	12	Average Learners
40	WMATSPH040	ABHIRAM	12	Average Learners
9	WMATSPH009	ABHIRAM	11	Average Learners
23	WMATSPH023	ABHIRAM	11	Average Learners
27	WMATSPH027	ABHIRAM	11	Average Learners
34	WMATSPH034	ABHIRAM	11	Average Learners
44	WMATSPH044	ABHIRAM	11	Average Learners
46	WMATSPH046	ABHIRAM	11	Average Learners
2	WMATSPH002	ABHIRAM	10	Average Learners



WMO ARTS & SCIENCE COLLEGE

"education and some more"

Affiliated to University of Calicut

(Aided by Govt. of Kerala)

P.O. MUTTIL, WAYANAD, KERALA - 673122

Phone : 04936-203382 (Office)

04936-207532 (Principal)

e-mail : wmocollege@gmail.com

website: WWW.wmocollege.ac.in

Slow Learners				
34	WMATSPH034	ABHIRAM P	11	Average Learners
44	WMATSPH044	ABHINAV D	11	Average Learners
46	WMATSPH046	ADARSH P	11	Average Learners
2	WMATSPH002	ADARSH P	10	Average Learners
18	WMATSPH018	ADARSH P	10	Average Learners
21	WMATSPH021	ADARSH P	10	Average Learners
14	WMATSPH014	ADARSH P	9	Average Learners
30	WMATSPH030	ADARSH P	9	Average Learners
36	WMATSPH036	ADARSH P	9	Average Learners
24	WMATSPH024	ADARSH P	8	Average Learners
32	WMATSPH032	ADARSH P	8	Average Learners
29	WMATSPH029	ADARSH P	7	Slow Learners
13	WMATSPH013	ADARSH P	6	Slow Learners
37	WMATSPH037	ADARSH P	6	Slow Learners
42	WMATSPH042	ADARSH P	6	Slow Learners
11	WMATSPH011	ADARSH P	5	Slow Learners
22	WMATSPH022	ADARSH P	5	Slow Learners
26	WMATSPH026	ADARSH P	5	Slow Learners
35	WMATSPH035	ADARSH P	0	Slow Learners
45	WMATSPH045	ADARSH P	0	Slow Learners



WMO ARTS & SCIENCE COLLEGE

"education and some more"

Affiliated to University of Calicut

(Aided by Govt. of Kerala)

P.O. MUTTIL, WAYANAD, KERALA - 673122

Phone : 04936-203382 (Office)

04936-207532 (Principal)

e-mail : wmo college@gmail.com

website: WWW.wmo college.ac.in

Department of electronics

WMO college, Muttil

2020-2021

List of advanced learners and slow learners

a) List of advanced learners

BSc 1 st	BSc 2 nd	BSc 3 rd	MSc 1 st
Maryam Sifara	Muhammed Muqad M	Fahima Minna	Aysha N P
Neelhana S Sankumar	Aysha Mubarek	Ridha Surana	Shahna U
Saimara	Dina P R	Aysha P	Aysha Nihala
Muhammed Ahsan K	Jasun Pe	Ashoop Va	
	Fahya G	Shahna D	
	Shahna Shaima K		

b) List of slow learners

BSc 1 st	BSc 2 nd	BSc 3 rd	MSc 1 st
Jahar P	Muhammed Fais O T	Muhammed Saad	Aysha M V
Saniid D	Muhammed Faiz Nk	Muhammed Ghameer	
Ashif Aslam	Ashmita A	Aysha Pp	
Aysha F	Fani Harkat	Muhammed Ismail d	
Muhammed Ahsan A	Muhammed Ansu		
Shahna Nihala Ps			



WMO ARTS & SCIENCE COLLEGE

"education and some more"

Affiliated to University of Calicut

(Aided by Govt. of Kerala)

P.O. MUTTIL, WAYANAD, KERALA - 673122

Phone : 04936-203382 (Office)

04936-207532 (Principal)

e-mail : wmollege@gmail.com

website: WWW.wmollege.ac.in

3. Model List of Activities for Advanced and Slow Learners

List of activities conducted for advanced learners

a) Webinar:

Department of electronics conducted a webinar on the title "Antennas for modern wireless applications" on 26th may 2021. The resource person was Mr. Muhammed Ameen, Ph.D Research scholar , IIT Dhanbad.

b) Interaction with eminent personalities:

Students were interacted with Muhammed Ameen, research scholar IIT, Danbad on the topic of modern communication research areas on 26th may 2021.

c) Group discussion, Peer learning & Seminar:

As part of the academic plan, teachers coordinated Group discussion, Peer learning & Seminar are conducted for course. This makes more clarity of concept among students and enhance presentation skills for the advanced learners.

d) Question bank for various competitive and higher education exams:

Department keep the question banks for various competitive exams like, CUSAT-CAT, UGC NET, DRDO, BSNL, Gate and IES etc.

e) Department Reference Library:

Department library included 212 books in various titles, that make available to the students for reference which are contributed by teachers and alumni.

f) Simulations and advanced lab experiments:

The department has provided various simulation lab for the students during the online teaching hours in covid time. Proteus, LTspice were utilized for this.

g) Online quiz

Online quizzes were conducted for the students using the software such as Kahoot, Quizizz.

h) Online seminars by students

Online quizzes were conducted for the students using the software such as Kahoot, Quizizz.

List of activities conducted for slow learners

a) Questions bank:

The department kept the previous years question papers for the references.

b) Peer learning

Slow learners are given the chance to come to the mainstream by giving them peer learning.

c) Additional study materials

Department provided additional study materials such as Lecture notes, PPT, PDF, YouTube videos and question bank etc.

d) Department Reference Library:

Department library included 212 books in various titles, that make available to the students for reference which are contributed by teachers and alumni.

e) Additional Assignments

Additional assignments are given to the slow learners for bring them up to the mainstream. Apart from this, answering section of old question papers, discussion and additional experiments are given to the needy students.



WMO ARTS & SCIENCE COLLEGE

"education and some more"

Affiliated to University of Calicut

(Aided by Govt. of Kerala)


P.O. MUTTIL, WAYANAD, KERALA - 673122

Phone : 04936-203382 (Office)

04936-207532 (Principal)

e-mail : wmo college@gmail.com

website: WWW.wmo college.ac.in

<p>Online Lecture Series Department of Physics WMO Arts & Science College, Muttil</p> <p>3rd Talk of the series Topic: Tropical Cyclone and Climate Change</p> <p>Resource Person: Dr.M.Govindankutty</p> <p>Department of Earth and Space Science, IIST</p> <p>27 th June 2020 Saturday 10.30 am-11.30am</p> <p>Online platform: Google meet Register through the link:shorturl.at/fgm48</p>	<p>ONLINE LECTURE SERIES DEPT. OF PHYSICS WMO COLLEGE, MUTTIL</p> <p>4th talk of the series THE BEAUTY OF NON LINEAR SYSTEMS</p>  <p>Dr.SUBHA P A (Former HOD, Department Of Physics, Farook college)</p> <p>01/08/2020 10.30-11.30am</p> <p>PLATFORM:GOOGLE MEET http://shorturl.at/uEK04</p>
--	---

<p>Online Lecture Series Organized by Department of Physics WMO Arts & Science College Muttil</p> <p>SECOND LECTURE OF THE SERIES</p>  <p>DR.RESMI LEKSHMI</p> <p>Dept. of Earth & Space Sciences IIST Thiruvananthapuram</p> <p>Registration Link: http://shorturl.at/hizyq2</p> <p>Talk Platform: Google meet Target Group: B.SC & M.SC Physics Students Maximum Participants:300</p>	<p>ONLINE LECTURE SERIES 2020</p> <p>Department of Physics WMO Arts & Science College Muttil.</p> <p>5th talk of the series 30 YEARS OF HUBBLE SPACE TELESCOPE</p>  <p>Resource Person</p>  <p>Dr. VIVEKM (Ramanujan Fellow, Indian Institute of Astrophysics (IIA) Bangalore)</p> <p>Date:22-08-20 (Saturday) Time 10.30-11.30 am</p> <p>ONLINE PLATFORM: GOOGLE MEET</p>
---	--



WMO ARTS & SCIENCE COLLEGE

"education and some more"

Affiliated to University of Calicut

(Aided by Govt. of Kerala)

P.O. MUTTIL, WAYANAD, KERALA - 673122

Phone : 04936-203382 (Office)

04936-207532 (Principal)

e-mail : wmo college@gmail.com

website: WWW.wmo college.ac.in

9-JULY-2020 – Lightning talks Order

- "Investigating Particle Acceleration in the Wolf-Rayet Inbible G2.4+1.4",
Prachi Prajapati, Physical Research Laboratory, Ahmedabad
- "Correlations Between CME Parameters and Sunspot Activity in Solar Cycle 23 and 24",
Shifana Koya, CUSAT, Kochi
- "Study of Long Term Variation in Solar Activity",
Prabha K., CUSAT, Kochi
- "On the Identification of new Chaetral Ae stars using LAMOST DR5",
Anasha R, CHRIST (Deemed to be University), Bangalore
- "Is the ratio of blue to red supergiants indicative of the metallicity of an open cluster?",
Koorthana S Narayan, CHRIST (Deemed to be University), Bangalore
- "Transition candidates from the pre-main sequence to the main sequence phase",
Suman Bhattacharyya, CHRIST (Deemed to be University), Bangalore
- "Characterization of stars in Nearby Young Moving groups",
Raksha S, CHRIST (Deemed to be University), Bangalore

10-JULY-2020 – Lightning talks Order

- "Modelling Galaxy Rotation Curves",
Lekshmi Priya, CUSAT, Kochi
- "Theory-Independent tests of General Relativity by analysing Black Hole Images",
Saurabh, University of Delhi
- "Twin Lines of Sight Observations of Metal-Rich Gas in a Galaxy Group",
Pratyush Anshul, IIST, Thiruvananthapuram
- "The Longitudinal Dependence of Number Counts of Stars and Galaxies within the Solar Neighbourhood",
Merin Joy, Sacred Heart College, Chalakkudy
- "The study of Latitude Dependence of Number Counts of Stars and Galaxies Within the Solar Neighborhood",
Shafna Kishore, Sacred Heart College, Chalakkudy
- "Cala view of a Warp in the outer disk of the Large Magellanic Cloud",
Saroon S, Amrita University
- "Searching The Optical and UV Counterparts of Candidate Millisecond Pulsars",
Annamaria J Puthur, Vimala college, Thiruv

About The Meeting

This is the sixth regional meeting on "Research in Astronomy: Opportunities and Challenges". We believe that this workshop will help to commence and enhance active research collaborations within Astronomy researchers in the region. As in the earlier meetings, it is earnestly hoped that this meeting will turn out to be a venue for fruitful discussions, sharing of scientific results, and beneficial collaborations among the researchers in the region.

Prof. Ranjeev Misra (IUCAA)
Dr. Vivek.M (IIA)

Dr. Joe Jacob (Newman College)
Dr.Biju KG (WMO College, Muttil)

Regional Astronomy Meeting

9 - 10 July 2020

Research in Astronomy: Opportunities and Challenges

Online platform: Google Meet

Sponsored by:



Highlights of the meeting:

- 9 Review talks by Senior Astronomers
- 22 Research talks by PhD students and Post Doc
- 14 Lightning talks by MSc students



WMO ARTS & SCIENCE COLLEGE

"education and some more"

Affiliated to University of Calicut

(Aided by Govt. of Kerala)

P.O. MUTTIL, WAYANAD, KERALA - 673122

Phone : 04936-203382 (Office)

04936-207532 (Principal)

e-mail : wmollege@gmail.com

website: WWW.wmollege.ac.in

DEPARTMENT OF SOCIAL WORK

1. List of Slow and Advanced learners

2019 Admission

Slow learners – 2

Advanced learners – 1

Learning at medium pace - 12

2020 Admission

Slow learners - 3

Advanced learners - 4

Learning at medium pace - 13

2. List of Activities conducted for advanced learners

- Providing assignments
- Providing materials for competitive exams
- Encouraging to participate in research projects

3. List of Activities conducted for slow learners

- Concept formation using knowing examples
- Mentoring
- Peer group learning
- Encouraging to participate in research projects
- Providing assignments
- Providing materials for competitive exams

4. List of activities /methods used for participative /experiential / student centric teaching

- Assignments on various topic related to syllabus focusing the application of the concept



WMO ARTS & SCIENCE COLLEGE

"education and some more"

Affiliated to University of Calicut

(Aided by Govt. of Kerala)

P.O. MUTTIL, WAYANAD, KERALA - 673122

Phone : 04936-203382 (Office)

04936-207532 (Principal)

e-mail : wmocollege@gmail.com

website: WWW.wmocollege.ac.in

- Seminars conducted by students
- Field work practicum to get experiential learning on professional social work theories and concepts

Invited talks/Seminars

An Online Lecture series on 'Measure theory' was conducted for post graduate students of Mathematics during third week of July 2020. Mr Arunkumar C S, Kerala School of Mathematics was the Resource person.

A Webinar on '**Kerala PSC Research Officer and Statistical Investigator - Prospects and Challenges**' was conducted on 22-01-2021. Mr Sain Gopi, Research Officer, Department of Economics and Statistics, Govt. of India and Mr Aneesh K M, High School Assistant, GHSS, G H S S Tharuvana were the Resource persons. Principal Dr T P Muhammed Fareed delivered the keynote address. A total of 120 aspirants participated and appreciated the program.

The Mathematical Circle

- Students and teachers who wish to experience the challenges and thrills of Mathematics are members in it
- Helps to pose and solve non-routine problems and do Recreational Mathematics
- Students of Dept. of Mathematics were divided in to groups and they lead meetings of the Mathematical Circle performing various events like Exploring new mathematical ideas, Mathematical games and puzzles, short math quizzes, Math magics, problem contests etc..
- During the Covid pandemic induced situation, online meetings of the Mathematical Circle were conducted through Google meet



WMO ARTS & SCIENCE COLLEGE

"education and some more"

Affiliated to University of Calicut

(Aided by Govt. of Kerala)

P.O. MUTTIL, WAYANAD, KERALA - 673122

Phone : 04936-203382 (Office)

04936-207532 (Principal)

e-mail : wocollege@gmail.com

website: WWW.wmocollege.ac.in

National Mathematics Day Celebrations (MAGMA)

- Celebrate National Mathematics Day every year with a variety of programmes entitled **MAGMA**
- Received financial support from KSCSTE
- Pay tribute to the great mathematician Srinivasa Ramanujan
- Programmes included Mathematics Exhibition, Invited talks, Presentation competition, Intercollegiate Math Maze and Poster Presentation

. **Mathematics Exhibition**

- Conducts Mathematics Exhibition in every three years
- Put forth intriguing models, mathematical games, puzzles, geometrical attractions, manuscript magazines
- More than six hundred students from different institutions visited
- Cash prizes for winners of problem contest and for solving challenging mathematical puzzles
- Overwhelming response from participants

Manuscript Magazine

- Manuscript Magazines of the department are published every year from 2010 onwards.
- Won 1st Prize for the Best Magazine in the inter department Magazine competition in 2018-19 and 2019-20
- The Magazine of the year 2020-21 was published as E-Magazine on August 5, 2021. Sri Kalpetta Narayanan released the magazine and delivered keynote address.



WMO ARTS & SCIENCE COLLEGE

"education and some more"

Affiliated to University of Calicut

(Aided by Govt. of Kerala)

P.O. MUTTIL, WAYANAD, KERALA - 673122

Phone : 04936-203382 (Office)

04936-207532 (Principal)

e-mail : wmocollege@gmail.com

website: WWW.wmocollege.ac.in

Department of Mathematics

Bridge Course(2020-21)

Syllabus

Module 1 (5 hours)

1. Basic Arithmetic - Addition of rational numbers, Multiplication of rational numbers & division of rational numbers
2. Function - Definition and Basic properties
3. Trigonometric functions - Identities and properties
4. Quadratic equation solving

Module 2 (6 Hours)

5. Polynomial function
6. Limits
7. Differentiation
8. Integration

Module 3 (4 Hours)

9. Basic geometry - Slope of a line shapes, area, volume and surface area of solids
10. Fundametls of graph - Graphing in cartesion coordinate
11. Linear inequalities
12. Matrices - Basic properties



WMO ARTS & SCIENCE COLLEGE

"education and some more"

Affiliated to University of Calicut

(Aided by Govt. of Kerala)

P.O. MUTTIL, WAYANAD, KERALA - 673122

Phone : 04936-203382 (Office)

04936-207532 (Principal)

e-mail : wmollege@gmail.com

website: WWW.wmollege.ac.in

W M O ARTS AND SCIENCE COLLEGE, MUTTIL

DEPARTMENT OF ARABIC

PROGRAM REPORT- 2020-21

The following programs conducted for **SLOW LEARNERS**:

1. Conducted remedial classes on basic Arabic grammar and Functional Arabic.



2. Offered Bridge course on Basic Arabic Language and literature.





WMO ARTS & SCIENCE COLLEGE

"education and some more"

Affiliated to University of Calicut

(Aided by Govt. of Kerala)

P.O. MUTTIL, WAYANAD, KERALA - 673122

Phone : 04936-203382 (Office)

04936-207532 (Principal)

e-mail : wmo college@gmail.com

website: WWW.wmo college.ac.in

3. Conducted group discussion on current issues on 09-02-2021



4. Solved university previous year question papers and conducted a mock test.



5. Provided audios and videos of commentaries and stories to strengthen their listening skills.





WMO ARTS & SCIENCE COLLEGE

"education and some more"

Affiliated to University of Calicut

(Aided by Govt. of Kerala)

P.O. MUTTIL, WAYANAD, KERALA - 673122

Phone : 04936-203382 (Office)

04936-207532 (Principal)

e-mail : wmollege@gmail.com

website: WWW.wmollege.ac.in

W M O ARTS AND SCIENCE COLLEGE, MUTTIL

DEPARTMENT OF ARABIC

PROGRAM REPORT- 2020-21

The following programs conducted for **ADVANCED LEARNERS**:

1. Conducted debate on "National Education Policy" among the students on 03-12-2020. Dr. Muhammad Sayeed was moderator of the session. Students shared their views on various aspects of the Topic.



2. Students interacted with Dr. T A Abdul Majeed (Former Registrar, University of Calicut) on 05-01-2021. The session disclosed the opportunities and scope of Arabic in higher education and professional fields.





WMO ARTS & SCIENCE COLLEGE

"education and some more"

Affiliated to University of Calicut

(Aided by Govt. of Kerala)

P.O. MUTTIL, WAYANAD, KERALA - 673122

Phone : 04936-203382 (Office)

04936-207532 (Principal)

e-mail : wmollege@gmail.com

website: WWW.wmollege.ac.in

- 3. Orientation and technical session on PSC Examinations, Competitive and University Entrance Examinations on 09-02-2021. The session handled by Dr. Najmuddeen P (HoD Department of Arabic).



- 4. Students participated in International virtual conference conducted by the Department of Arabic in collaboration with Academy of Excellence from 14-12-2020 to 18-12-2020 on the topic of "Arabic Language in 21th century".

The image displays promotional material for an international virtual conference. On the left is a poster with Arabic text: 'الدور الثاني للمؤتمر الدولي الافتراضي حول اللغة العربية في القرن الحادي والعشرين' (The 2nd International Virtual Conference on the Arabic Language in the 21st Century). It lists the Department of Arabic, W. M. A. Arts and Science College, Muttill, Wayanad, and mentions dates from 14-12-2020 to 18-12-2020. On the right is a screenshot of a virtual meeting grid with several participants, including a man in a suit in the foreground. Above the grid is the Malayalam title 'അന്താരാഷ്ട്ര സാഹിത്യ മേഖലയുടെ ഭാഗമായി പ്രായസ്കരണ സമ്മേളനം'.



WMO ARTS & SCIENCE COLLEGE

"education and some more"

Affiliated to University of Calicut

(Aided by Govt. of Kerala)

P.O. MUTTIL, WAYANAD, KERALA - 673122

Phone : 04936-203382 (Office)

04936-207532 (Principal)

e-mail : wmocollege@gmail.com

website: WWW.wmocollege.ac.in

DEPARTMENT OF COMPUTER SCIENCE

Bridge Course For Advanced Learners – 2020-23

(30- hours)

Syllabus

Unit 1	Concepts of Interactive learning. Scope and Challenges in Computer Application. How to target our aim. Best practices in learning.	10 hours
Unit 2	Advance Programming language skills. Android development cycle.	6 hours
Unit 3	Introducing a new programming language by a resource person	4 hours
Unit 4	IoT concepts, Big data, Cloud computing basics	5 hours
Unit 5	GD basics. Mock interview techniques. Basic Communication skill development.	5 hours