

**K.S. RANGASAMY COLLEGE OF ARTS AND SCIENCE
(AUTONOMOUS) TIRUCHENGODE-637215**

Department of Biotechnology

Life skill development programme on Importance of Vaccine - 2021

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From

The Head

Department of Biotechnology

K. S. Rangasamy College of Arts and Sciences (Autonomous)

Tiruchengode -637215

Tiruchengode

09.02.2021

To

The Principal

K. S. Rangasamy College of Arts and Sciences (Autonomous)

Tiruchengode- 637215

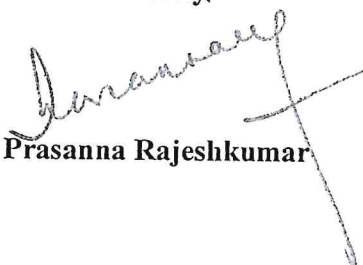
Respected Sir,


Sub: Requisition to organize Life skill development programme on "Importance of Vaccine" - Reg.

We have planned to conduct a **Life skill development programme on "Importance of Vaccine"** on 12.02.2021 for students. So, we request you to kindly give us permission to conduct one day **Life skill development programme on "Importance of Vaccine"** on 12.02.2021.

Thanking you

Yours Sincerely,


Dr. M. Prasanna Rajeshkumar


PRINCIPAL
K. S. Rangasamy College of Arts & Science
(Autonomous)
TIRUCHENGODE - 637 215
Namakkal-Dt. Tamil Nadu, INDIA


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(Autonomous)
TIRUCHENGODE - 637 215
Namakkal-Dt. Tamil Nadu, INDIA

K. S. RANGASAMY COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)

K.S.R. Kalvinagar, Tiruchengode-637215.

Life skill development programme on “Importance of Vaccine”

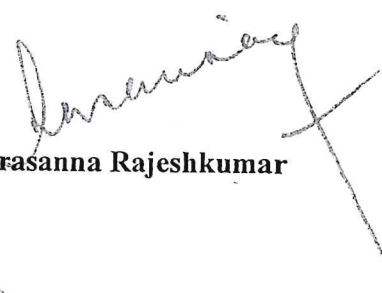
CIRCULAR

From	Through Proper Channel
The Head Department of Biotechnology	To The Students, (KSRCAS)


Sub: Life skill development programme on “Importance of vaccine” – Reg.

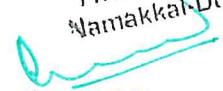
Respected Sir/Madam

We are happy to inform you that Department of Biotechnology is organizing **Life skill development programme on “Importance of vaccine”** on 12.02.2021 at Biotechnology Laboratory. In this regard, we invite you to participate actively in this awareness programme.


Dr. M. Prasanna Rajeshkumar

1. Copy to All Department (KSRCAS)


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K. S. Rangasamy College of Arts & Science
(Autonomous)
TIRUCHENGODE - 637 215
Namakkal-Dt. Tamil Nadu, INDIA

BOOBALAN.S



Email:
boobalan1291@gmail.com

Mobile:
(+91) 9791573434
(+91) 9715230895

Personal Profile:

Sex : Male
Nationality : Indian
Married/Unmarried: Married
DOB : 10.06.1991

Father's Name:

Mr. S.Selvakumar

Objective

Rationale

Seeking a challenging position involving work in team to gain expertise through knowledge sharing and continuous learning while ensuring to be innovative, effective and cooperative. Innovative and productive contribution to the scientific community with a view for human welfare and development.

Academic Profile:

- 2017-2020 **Ph.D., Biotechnology**
K.S.Rangasamy college of Arts and Science
Tiruchengode – 637 215,
Tamil Nadu, India.
Percentage of Marks–(Pursuing)
- 2013-2014 **M.Phil., Biotechnology**
K.S.Rangasamy college of Arts and Science
Tiruchengode – 637 215,
Tamil Nadu, India.
Percentage of Marks–81%
- 2011 - 2013 **M.Sc., Biotechnology**
K.S.Rangasamy college of Arts and Science
Tiruchengode – 637 215,
Tamil Nadu, India.
Percentage of Marks– 80%
- 2008-2011 **B.Sc., Biotechnology**
Sengunthar Arts and Science college,
Tiruchengode – 637 205,
Tamil Nadu, India.
Percentage of Marks– 72%

HSC

- 2007-2008 **K.A.N. Govt. Hr. Sec. School**
Konganapuram,
Idappadi-637102,
Tamil Nadu, India.
Percentage of Marks– 55%

SSLC

- 2006 **K.A.N. Govt. Hr. Sec. School**
Konganapuram,
Idappadi-637102,
Tamil Nadu, India.
Percentage of Marks– 58.6%

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TIRUCHENGODE - 637 215
Namakkal-Dt. Tamil Nadu, INDIA

Permanent Address:

S.Boobalan S/o S.Selvakumar,
1/49B, Koranampatty,
Koranampatty (P.O), Idappadi
(T.K), Salem (Dt)
637 102.

Languages Known:

To Read ,Write and Speak:
Tamil, English.

Research Experience:

- Worked as a **Junior Research fellow** in SERB Sponsored project (2017-2019).
- Worked as a **Senior Research fellow** in SERB Sponsored project (2019-2020).

Working experience:

- Year: 2 years (2015-2017)
- Post: Assistant Professor
- Place: K.S. Rangasamy college of Arts and Science
Tiruchengode – 637 215

Areas of interest:

- Industrial biotechnology
- Food &Pharmaceutical biotechnology
- Microbiology
- Plant tissue culture

Paper published in National and International Journals

Total impact factor: 16.148

1. **Boobalan, S, Kamalanathan, D** (2020) Tailoring enhanced production of aervine in *Aerva lanata* (L.) Juss. Ex Schult by *Agrobacterium rhizogenes*-mediated hairy root cultures. Industrial Crops and Products. 155: 112814. (**Impact factor. 4.244**).
2. **Boobalan, S, Kamalanathan, D** (2019) Spermidine influences enhanced micropropagation and antibacterial activity in *Aerva javanica* (Burm. F.) Shult. Industrial Crops and Products. 137: 187–196. (**Impact factor. 4.244**).
3. **Gopalu Karunakaran, Eun-Bum Cho, Govindan Suresh Kumar, Evgeny Kolesnikov, Dmitriy Yu Karpenkov, Janarthanan Gopinathanf, Mamatha Muraleedharan Pillai, Rajendran Selvakumar, Selvakumar Boobalan, Mikhail V. Gorshenkov** (2019). Sodium dodecyl sulfate mediated microwave synthesis of biocompatible superparamagnetic mesoporous hydroxyapatite nanoparticles using black Chlamys varia seashell as a calcium source for biomedical applications. Ceramics International 45 (2019) 15143–15155. (**Impact factor. 3.830**).
4. **Gopalu Karunakaran, Eun-Bum Cho, Govindan Suresh Kumar, Evgeny Kolesnikov, Gopinathan Janarthanan, Mamatha Muraleedharan Pillai, Selvakumar Rajendran, Selvakumar Boobalan, Mikhail Vladimirovich Gorshenkov, and Denis Kuznetsov**(2019) Ascorbic Acid-Assisted Microwave Synthesis of Mesoporous Ag- Doped Hydroxyapatite Nanorods from Biowaste Seashells for Implant

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Capabilities:

- Fast learner, Good organizer
- Likes to work as a team
- Hard Worker, Good listener

Applications. ACS Appl. Bio Mater. 2: 2280–2293.

5. Gopalu Karunakaran, Eun-Bum Cho, Govindan Suresh Kumar, Evgeny Kolesnikov, Gopinathan Janarthanan, Mamatha Muraleedharan Pillai, Selvakumar Rajendran, **Selvakumar Boobalan**, Kattakgoundar Govindaraj Sudhaf, Mohan Prasanna Rajeshkumar(2020). Mesoporous Mg-doped hydroxyapatite nanorods prepared from bio-waste blue mussel shells for implant applications. Ceramics International. (**Impact factor. 3.830**).

Book chapters published in National and International Conference

1. **Boobalan, S.**, Kamalanathan, D and Natarajan, D (2018). Antioxidant and phytochemical properties of wild and micropropagated *Aerva javanica*.L. Juss Ex. Schultes: A resourceful medicinal herb. International Journal of Phytomedicines and Related Industries.pp. 72 ISSN: 0975-4261(Print), ISSN: 0975-6892.
2. **Boobalan S**, Srinivasan R and Kamalanathan D (2020) Liquid chromatographic ESI-MS profiling of alkaloids extracted from *Aerva javanica* and its antibacterial screening. A Book of Original Research Articles Submitted for publication in An Insight on Environmental Toxicology. pp. 284-299 ISBN 978-93-5396-157-2.
3. Kamalanathan, D., **Boobalan, S** and Natarajan, D. (2018) Micropropagation of node and shoot tip explants of *Aerva lanata*. Proceedings of 6th National Conference on Emerging Trends and New Challenges in Biotechnology – Advances in Biomaterials and Applications. 198-210. ISBN 978-93-5291-689-4.
4. Exploring the Potentiality of *Glycyrrhiza glabra* and *Nyctanthes arbor-tristis* via FT-IR, GC-MS, Anti-oxidant Activity and Implication of the Extract against MCF-7 Cell Line, International

Achievements:

- Secured 1st Rank in UG semester examination.
- Secured 3rd Rank in PG semester examination.

Computer skills:

- Basic C
- MS -Office
- Good Typing skill

Hobbies:

- Reading books
- Cricket
- Gardening

Conference on Impact of Innovations in Science and Technology for Societal Development (IISTSD – 19). Sep 19 Pp: Abstract no. BMS 329 – 109.

5. *In vitro* Morphogenetic Studies on Pearl Millet (*Pennisetum Glaucum* (L.) R.Br. CSIR sponsored National Conference on Translating the Science of Nutrition into Art of Healthy Living (TSNAHL-19). ISBN: 978-98-5346-732-6, Pp: 107-110.
6. Cytotoxicity Effect of Secondary Metabolites Isolated from *Mirabilis jalapa*; Traditionally Important Medicinal Plant in South India CSIR, UGC and MOES sponsored 8th National Conference on Emerging Trends and New Challenges in Biotechnology – An Insight on Environmental Toxicology (8th NCETNCB-20). ISBN : 978-93-5396-157-2, Pp: 300-316

Technical Kills:

7. **Microbiology:** Pure culture techniques, staining techniques, Antibiotic Sensitivity test, Biochemical Test, Isolation of fungus from plants. BOD, COD, and Mass cultivation of Bacteria.
8. **Molecular Biology:** Isolation of genomic DNA from *E.coli* and yeast, Isolation of plasmid DNA from *E.coli*. Electrophoresis – Agarose gel electrophoresis, SDS-PAGE, Chromatography – Paper, Thin Layer, Column chromatography, and PCR.
9. **Immunology:** Immunotechniques (ELISA, Immuno electrophoresis, Immuno Diffusion) Hemagglutination test, Blood grouping, Widal test, ASO, CRP, RPR, and VDRL test.
10. **Plant Tissue Culture:** Sterilization of Explant, Micro propagation, Isolation of Plant DNA, Isolation of Protoplast, Embryo culture, Root and shoot induction, Suspension Culture.



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Namakkal-Dt. Tamil Nadu, INDIA

Training and short term courses:

1. Attended the one week training course in "Fruit and Vegetables Preservation & Nutrition" conducted by the Community Food and Nutrition Extension unit (GOVERNMENT OF INDIA), Chennai.
2. Attended in the national workshop on "Green Initiative in Energy and Environment (GIEE-2014)" Organized by the Department of Environment Science, Periyar University, Salem.
3. Attended in National Workshop on "Nanomaterial Synthesis and Characterization" held at Center for Nanoscience and Technology, K.S.Rangasamy College of Technology, Tiruchengode.

Conference/Seminar Presentation and

Paper presentation/Participation:

1. Presented a paper and got **Best paper presentation award** entitled "Elicitor-induced enhanced alkaloid production in cell suspension cultures of *Aerva lanata* (L.) Juss. ex Schult., against oxidative stress and human pathogens". **International Virtual Conference on Innovations and Recent Trends in Genomic Research - ICITGR' 20** held at Bannari Amman Institute of Technology, Sathyamangalam, Erode on 30.07.2020 and 31.07.2020.
2. Presented a poster session entitled "*Agrobacterium rhizogenes*- mediated hairy root production for enhanced production of secondary metabolites in *Aerva lanata* (L.) Juss. Ex Schult. A seasonally important medicinal plant". **SERB, Govt. of India and Indian Science Congress Association Sponsored International Conference on 'Impact of Innovations in Science and Technology-For Societal Development** Organized by Department of Biotechnology, Kongunadu Arts and Science College, Coimbatore held during 19.9.2019 to 21.9.2019.
3. Presented a paper entitled "Optimization of alkaloid separation from *Aerva javanica* (Burm.f) Juss. Ex Schult and its bactericidal activity against multi drug resistant human pathogens". **SERB, Govt. of India and Indian Science Congress Association Sponsored International Conference on 'Impact of Innovations in Science and Technology-For Societal Development** Organized by Department of Biotechnology, Kongunadu Arts and Science College, Coimbatore held during 19.9.2019 to 21.9.2019.
4. Presented a paper entitled "*Rhizobacterium rhizogenes* Mediated Transformation of Hairy Root Cultures in *Aerva javanica* for Efficient Production of Phenolic secondary metabolites" **SERB & CSIR sponsored national conference on "Biotechnological Intervention for Sustainable Crop Improvement" (BISCI- 2020)** Organized by Department of Biotechnology, Periyar University, and Salem on 13.02.2020 and 14.02.2020.
5. Presented a paper entitled "Micropropagation of node

Dissertation:

Ph.D:

“Enhanced production and Comparative evaluation of Antioxidative compounds induced by elicitors in the micropropagated cultures of *Aerva javanica* and *Aerva lanata*”

M.Phil:

“Study On The Potentiality Of Plant Growth Promoting Pink Pigmented Facultative Methylophs Isolated From Phyllosphere Region”

M. Sc:

“Bioactive Metabolites Produced By *Alternaria Sp.*, An Endophytic Fungus In *Catharanthus Roses*”

and shoot tip explants of *Aerva lanata*”. Proceedings of ICMR and DST-SERB Sponsored 6th National Conference on Emerging Trends and New Challenges in Biotechnology to be held at MGR College, Hosur on 31st January and 1st February 2018.

6. Presented a paper entitled “Antioxidant and phytochemical properties of wild and micropropagated *Aerva javanica*.L. Juss Ex. Schultes: A resourceful medicinal herb”. **International Conference on Phytomedicine** Organized by Department of Botany, Bharathiar University, and Coimbatore held during 29th -31st August 2018.
7. Presented a paper entitled “Liquid chromatographic ESI-MS profiling of alkaloids extracted from *Aerva javanica* and its antibacterial screening”. **Sponsored by CSIR, GOI-MOES and UGC** Organized by PG and Research Center in Biotechnology held at MGR College, Hosur on 30th and 31st January 2020.
8. Presented a paper on “**Biochemical Investigation and Antimicrobial Activity of Medicinal Plant against Human Pathogens**” Organized by Department of Biotechnology, Periyar university, Salem.
9. Presented a paper on “**Study on the Potentiality of Plant Growth Promoting Pink Pigmented Facultative Methylophs Isolated from Phyllosphere Region**” Organized by Department of Biotechnology, K.S. Rangasamy College of arts and science, Tiruchengode.
10. Presented a paper on “**Bioactive Metabolites Produced By *Alternaria sp.*, An Endophytic Fungus in *Catharanthus roseus***” and win the 1st prize in Sree Amman arts and science college, Erode.
11. Presented Poster in the “**National Level Seminar on Vistas in Plant and Microbial Biotechnology**” Organized by department of Biotechnology and Microbiology, in Sengunthar arts and science college, Tiruchengode.
12. Participated in the seminar “**Fundamentals of Drug Discovery Process and Clinical Research**” organized by Sengunthar arts and science college,

Reference:

Dr. D. Kamalanathan

Assistant professor
Department of Biotechnology,
K.S. Rangasamy college of
Arts and Science,
Tiruchengode – 637 215,
Tamil Nadu, India.

Mobile No: +91 9790661441

Email:

dkamalanathan@live.com

Dr.M.Prasanna

Rajeshkumar,

Assistant Professor,
Head,

Department of Biotechnology,
K.S. Rangasamy college of
Arts and Science,
Tiruchengode – 637 215,
Tamil Nadu, India.

Mobile No: +91 9994505152

Dr. S. Arjunan

Principal

Mahendra Arts and Science
college

Tiruchengode – 637 215,
Tamil Nadu, India.

Mobile No: +91 9894264220

Tiruchengode.

13. Participated in the National Seminar on “**Global Environmental Issues And Remediation Technologies (GEIRT-2012)**” Organized by Department of Environment Science, Periyar University, Salem.

14. Participated in the two days national seminar on “**Innovative Green Technologies for Geologic Sequestration of Carbon dioxide(CO₂) and to protect atmosphere**” organized by the Department of Chemical Engineering, Erode Sengunthar Engineering college, Erode.

15. Participated in the model event and secured **1st Place** during “**National Science Day Celebration**” Organized by K.S.R. College of Arts and Science, Tiruchengode.

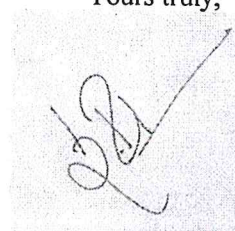
Declaration:

I hereby declare that the above particulars are true to my knowledge.

Date :

Place : Salem

Yours truly,



(BOOBALAN.S)



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(Autonomous)

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Namakkal-Dt. Tamil Nadu, INDIA

K. S. Rangasamy College of Arts and Science (Autonomous)
Department of Biotechnology
Life skill development programme on "Importance of Vaccine"

Date: 12.02.2021.

Title of the Programme: *Importance of Vaccination*.

Venue: *Biotechnology Lab (A9-01)*

S.No	Name of the participants	Designation and official address	Remarks	Signature
1	Aameena Begums	BBA	Vaccine Boosts immunity	Aameena Begums. S
2	Isuvaraya Lakshmi	Bio technology	It is very useful	Isuvaraya. P
3	Keerthana. K	Bio technology	vaccine Boost immunity	Badmanadan. A
4	Badmanadan. A	BSc. Computer application	It's a very good information.	Badmanadan. A
5	Magalakshmi. K	Bio technology.	Vaccine Protection	Magalakshmi. K.
6	Mohanapriya. T	Bio technology	It is very useful	Mohanapriya. T.
7	Mynavathi. R	Bio technology.	Vaccine Boost immunity	Sanjay. J.
8	Sanjay. J	BSc. Computer application	I'll tell this valuable information to others	Sanjay. J.
9	Preethika. R	Bio technology	It is very useful	Preethika. R.
10	Pruthivaraj. R	Bio technology.	Vaccine Boost immunity	Pruthivaraj. R.
11	Ragavi. V	Bio technology	It is very useful	Ragavi. V
12	Yuvaraj. T	BSc. Computer application	It's protect our body from virus	Yuvaraj. T

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13	Dharaahini Priya.T	B.com. (CA)	It is a good information	T. Dharaahini priya.
14	Devanayan. R	B.com (CA)	It is very	R. Devanayan
15	Karthikeyan. S	B.com (CA)	It is useful	S. Karthikeyan
16	D. Kishan Kumar	BA. English	Reliant to	D. Kishan Kumar
17	Kavin. V	B.com (CA)	vaccine is best	V. Kavin
18	Suresh Kumar	B.com (CA)	vaccine gives	K. Suresh
19	Aswin. K	English	Encourage	K. Aswin
20	Gayathri. A	B.Sc. (CS)	scope of BioTech.	A. Gayathri
21	Muthuselvakumar. S	B.com (CA)	corona vaccine are	S. Muthuselvakumar
22	Ela Kiyas. S	B.Sc. (Co)	Vaccine	S. Ela Kiyas
23	SURYA. S	B.com (CA)	GOOD TALK	S. Surya
24	Sathish. S	BioTech	Informative	S. Sathish
25	Ramya. V	B.com (CA)	It's protect are	V. Ramya
26	K. Mahendran	BIO TECH	Valuable	K. Mahendran
27	P. Dinesh Kumar	Bio technology	Why	P. Dinesh Kumar
28	P. Surya.	BT	Good	P. Surya.
29	Sanchana. M	B.com (CA)	corona vaccine are produce people	M. Sanchana

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30	Gayathiri . A	BSc. computer science	vaccine Boost immunity	Gayathiri . A
31	ABINAYA . G	Bio technology	It is very useful	ABINAYA . G
32	ABIRAMI . K	Bio technology	vaccine Boost	ABIRAMI . K
33	BALAJI . S	Bio technology	It is good	BALAJI . S
34	Deepa . E	Bio technology	It, boosts immunity	Deepa . E
35	Jeena . A	BSc. computer science	It is a good information	Jeena . A
36	Saranya . V	Bio technology	It protects humans	Saranya . V
37	Soniya . C	Bio technology	I'll tell it about others	Soniya . C
38	Sowmiya . R	Bio technology	It kills Covid	Sowmiya . R
39	Naveena . S	BSc. computer science	vaccine protect humans	Naveena . S.
40	Vasanth Kumar . S	Vasanth Kumar . S	it is protective	Vasanth Kumar . S
41	Deepika . V	Bio technology	It is very useful	Deepika . V
42	Veeramani . P	Biotechnology		Veeramani . P
43	Dharunkumar . M	BA . English	It is very useful.	Dharunkumar . M.
44	VISHWA . V	Biotechnology	vaccine is useful	vishwa . A
45				
46	Roshan . S	Biotechnology	It is very useful.	Roshan . S.

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K.S.R. Kalvinagar, Tiruchengode-637215.

Life skill development programme on “Importance of Vaccine”



Image 1. Talk given about importance of vaccination by Mr. S. Boobalan



Image 2. Discussion session with active participants of students from various departments


PRINCIPAL
K. S. Rangasamy College of Arts & Science
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TIRUCHENGODE - 637 215
Namakkal-Dt. Tamil Nadu, INDIA

Report

Life skill development programme on “Importance of Vaccine”

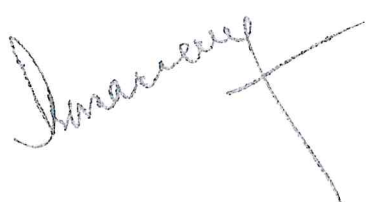
The Department of Biotechnology, K. S. Rangasamy College of Arts and Science (Autonomous) conducted the **Life skill development programme on “Importance of Vaccine”** for the students from Life Science departments on 12.02.2021. For this training programme. 89 students attended from various Departments of K. S. Rangasamy College of Arts and Science (A).

The programme was initiated by Dr. V. Radhakrishnan, Principal, K. S. Rangasamy College of Arts and Science (Autonomous) and welcome address delivered by Dr. M. Prasanna Rajeshkumar, Head, Department of Biotechnology, K. S. Rangasamy College of Arts and Science (Autonomous).


In this session, Mr. S. Boobalan, Assistant Professor, Department of Biotechnology, K. S. Rangasamy College of Arts and Science (Autonomous), given a note regarding Vaccination and its importance to fightback the harmful diseases like corona virus, measles, and etc. Also, vaccination is a simple, safe, and effective way of protecting you against harmful diseases, before you come into contact with them. It uses your body’s natural defenses to build resistance to specific infections and makes your immune system stronger.

Vaccines train your immune system to create antibodies, just as it does when it’s exposed to a disease. However, because vaccines contain only killed or weakened forms of germs like viruses or bacteria, they do not cause the disease or put you at risk of its complications. Most vaccines are given by an injection, but some are given orally (by mouth) or sprayed into the nose.

The session completed around 1:15 PM on the same day and later we took the feedback about the life skill development programme from the students. Finally, the programme was concluded with the vote of thanks delivered by Ms. K. Yamuna, Assistant Professor, Department of Biotechnology.



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