



National Education Society (R.)

# J N N College of Engineering, Shivamogga

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Internal Quality Assurance Cell

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING  
& IETE, Shivamogga Centre

## Webinar Series



**Titles of Webinar :**

***Security and Privacy Concerns of Vehicular and Flying Adhoc Network Date: 05-06-2021 @ 4:00 PM.***

***Mathematical Modeling of COVID19 cases in India to Assist in Supply Chain Management Date: 19-06-2021 @ 4:30 PM.***

***Blockchain: A new Technology of Trust Powered by Cryptography Date: 26-06-2021 @ 4:30 PM.***



**Dr. G K Patra**

***Dr G K Patra, is working as a Senior Principal Scientist in the High Performance Computing and Cyber Security group at the CSIR Fourth Paradigm Institute, which was earlier known as CSIR Centre for Mathematical Modelling and Computer Simulations. He is also a Professor in the faculty of Mathematical and Information Sciences, of Academy of Scientific and Innovative Research (AcSIR), which is an institute of national importance by Government of India Act of Parliament.***

***His fields of interest include various security aspects of current generation Cyber Physical Systems and High Performance computing. At present, he is engaged in research on security and safety of connected vehicles using Artificial Intelligence, Blockchain and cryptography. He has published about 60 research papers in reputed journals and refereed conference proceedings. He has many best paper awards in International Conferences for providing security solutions based on neural networks and chaos. He received his postgraduate and Ph.D. degree in Electronics from Berhampur University in the year 1994 and 2002 respectively. He has supervised two Ph.D. students and many are currently carrying out research for their degree.***

***He is one of the key members who made significant contributions in establishing one of the largest supercomputing facilities of the country at CSIR Fourth Paradigm Institute. In additions he is member industrial advisory board and board of studies of many Post-graduate and Engineering institutions in the country. He is also an adjunct faculty at Amrita Visva Vidyapeetham.***



**Title of Webinar : Computing trends & top supercomputer Date: 16-06-2021 @ 4:30 PM.**



**Ms. Divya M G, is Joint Director, SDOS & Admin Group, at Centre for Development of Advanced Computing (C-DAC), Bangalore. Earlier she was working as Scientist at Core R&D, ITI Ltd, Bangalore. She has over 25 years of experience in Telecommunication and Distributed Computing. Her education background is B.Tech, M.S, and MBA.**

**Her expertise areas are Telecommunication, High-Performance Computing (HPC), Grid & Cloud Computing, Project management, Software engineering, and Vehicular Technology. She has various publications to her credit. Also given presentations at national and international conferences. She is IEEE Senior Member and ACM member.**

**Ms. Divya M G**

**Title of Webinar : Data Analytics & its Applications Date: 29-06-2021 @ 4:30 PM.**



**Sandeep Kumar E completed his B.E from JNN college of Engineering in Telecommunication Engg. with distinction and six merit awards. He completed his M. Tech in Digital Communication from M.S. Ramaiah Institute of Technology Bengaluru with a first rank and gold medal. Later, he was a full time research scholar at M.S Ramaiah Institute of Technology working on his Ph.D problem statement in collaboration with IIT Madras and Florida International University, Miami. Currently he is with Robert Bosch Engineering and Business Solutions Bengaluru as a senior research engineer. Prior to this, he had worked with JNN college of Engineering as a faculty in the department of telecommunication Engg.**

**His area of interest includes data science, network science and cyber security. He has published more than 35 research papers in national/international journals, book chapters and conferences, and worked with University of Padua Italy, Centre of Medical Computing- Ramaiah Institute of technology, IIT Madras and University of Agriculture Shivamogga for various collaborative projects. He is a reviewer for journals like IEEE sensors, IEEE IoT, IEEE COMST, Elsevier Measurements, Computer and Security and many other Springer journals and conferences. He has received outstanding reviewer recognition from Elsevier journal for 2017.**

**Currently he is working on computer vision and NLP applications for industrial failure analysis and software engineering automations. He is part of BOSCH reverse mentoring and University relations team, and recently identified as one of the inspirational personalities at BOSCH.**

**Mr. Sandeep Kumar E**

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<https://meet.google.com/mjf-zgqe-bgi>**



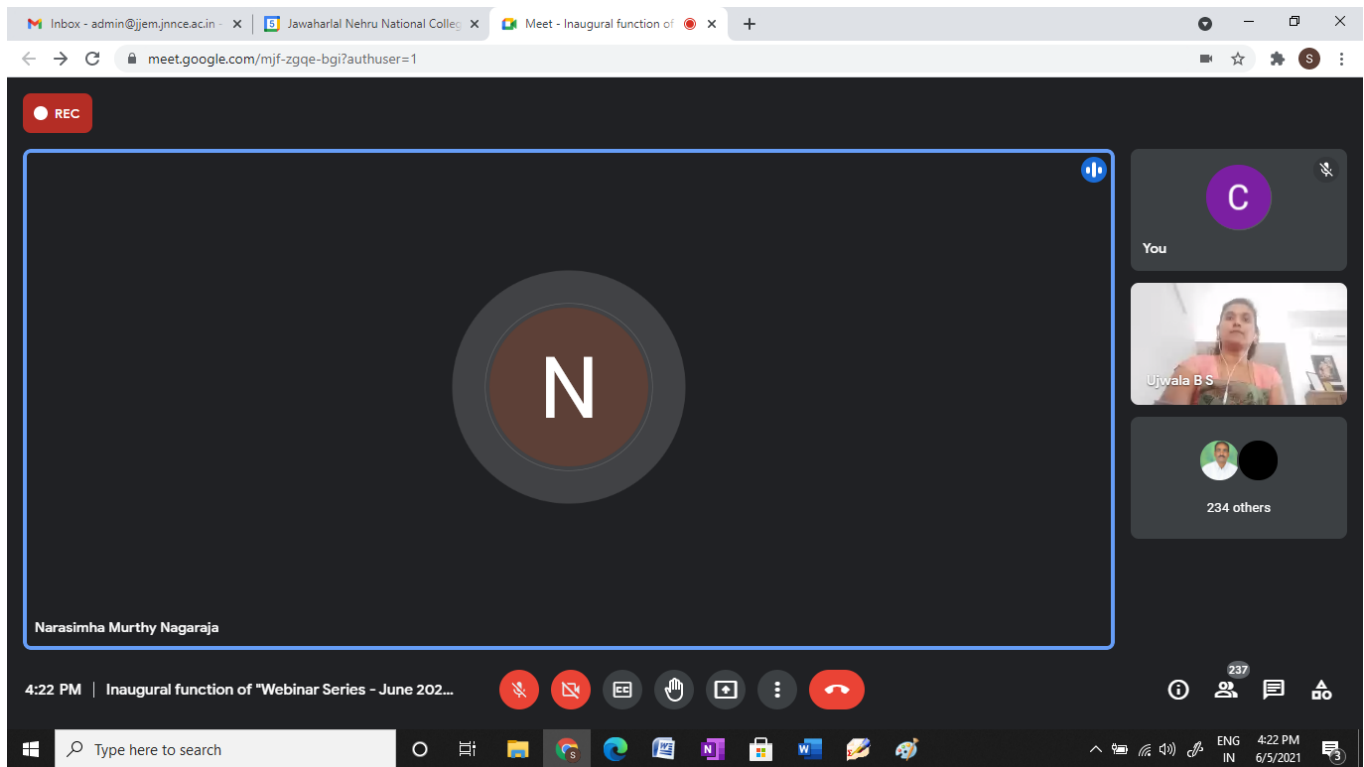
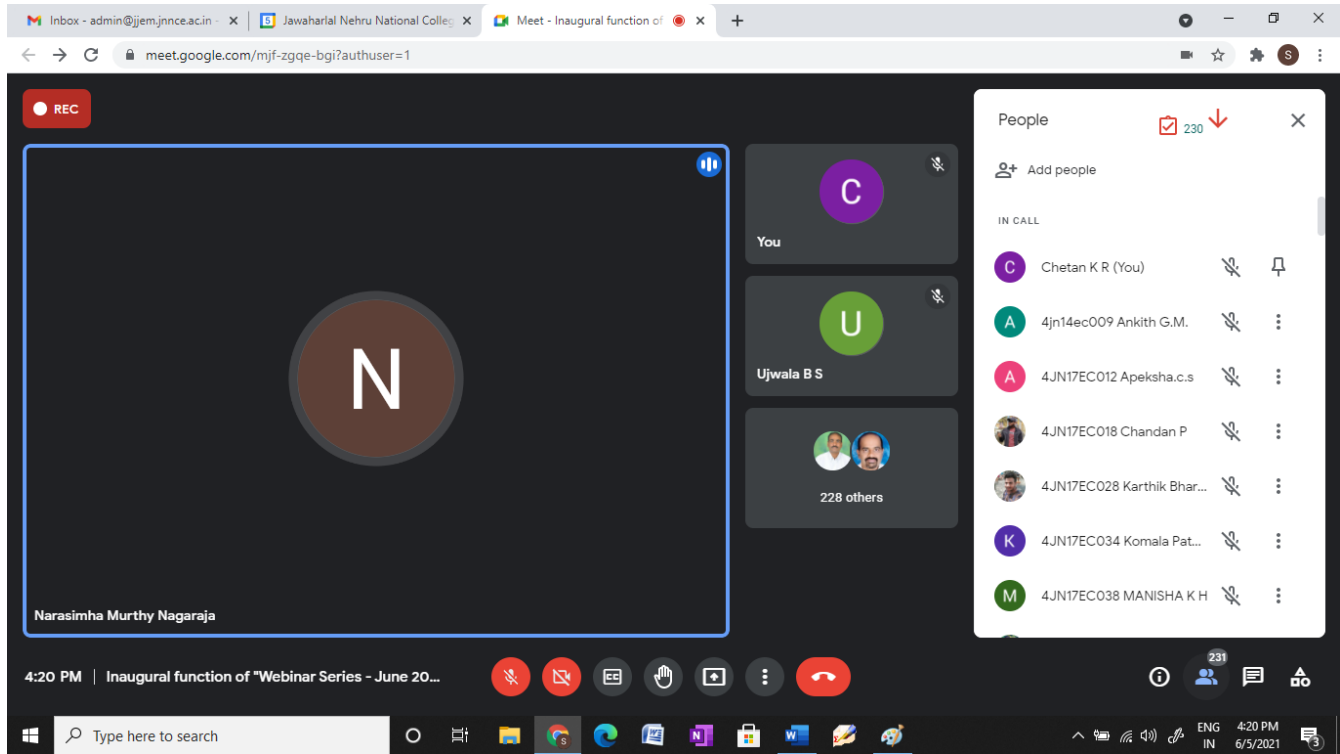
**Dr. P. Manjunatha  
Principal (I/c)**

**Dr. S.V. Sathyanarayana  
HoD, ECE Dept.**

**Ms. Shwetha B  
Co-ordinator  
Asst. Prof., ECE Dept.**



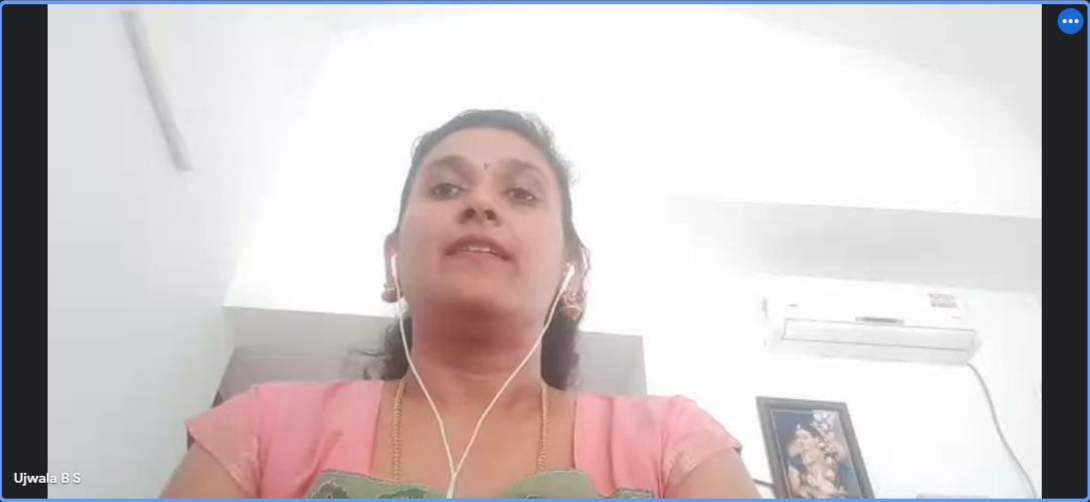
# Inaugural and Session 1 Presentation



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REC



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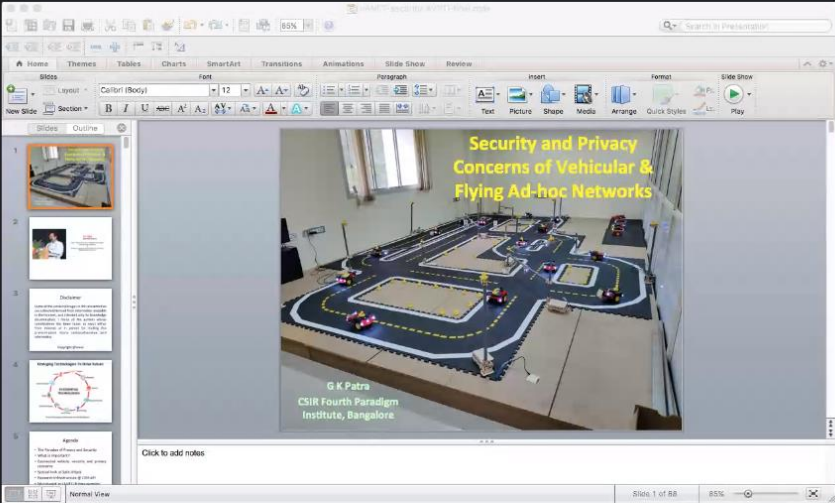
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REC

Gopal Krishna Patra is presenting



Security and Privacy Concerns of Vehicular & Flying Ad-hoc Networks

G K Patra  
CSIR Fourth Paradigm Institute, Bangalore

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Gopal Krishna Patra

You

REC Gopal Krishna Patra is presenting

## What?

- **Personal Privacy** Privacy is the ability of an individual or group to seclude themselves or information about themselves, and thereby express themselves selectively.
  - Fundamental right
- **Public Security** refers to how your are protected.
  - Public security is the function of governments which ensures the protection of citizens, persons in their territory, organizations, and institutions against threats to their well-being.

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REC Gopal Krishna Patra is presenting

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## Important?: Privacy OR Security

Our personal data is everywhere. Certainly in enough places which are out of our control.

It's the 21st century, and everyone is online.

Our personal information is digitized and available to anyone with the means to access it.

**Question:** Should we give up our right to personal privacy in return for greater security?

As countries around the world are contemplating ways via digital technology to trace the whereabouts of those who have been in contact with a person, privacy is ever more in question.

**Aarogya Setu**  
 वै कुटिले | एक कुटिले | सार कुटिले

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### The Highlights of the Simulator: Other Components

- Veins (Vehicle in Network simulator)
  - Provides a comprehensive suite a modular framework for simulating vehicular applications in OMNET++.
- Artery
  - An extension of Veins
  - Enables V2X simulations, based on ETSI ITS protocols.
  - Single vehicles can be equipped with multiple ITS-G5 services through Artery's middleware.
- Vanetza:
  - The security stack,
  - Support GeoNetworking (GN), Basic Transport Protocol (BTP), Decentralized Congestion Control (DCC)
  - Security and different messaging facility defined by ETSI C-ITS protocol suite (CAM and DENM)

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### Duckietown Test-bed @CSIR 4PI



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Satellite network (High Altitude) RAU

Aircraft network (Medium Altitude) MAU

UAV network (Low Altitude) LAU

Terrestrial network (Earth)

Ground station Urban Vehicular network Ship ad hoc network

**Mobility 2D to 3D**

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**Cyber Security Test-bed**

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CSIR Supercomputer (Ananta)  
HP Cluster Platform 3000 BL460c

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This block contains the main content of a Google Meet session. At the top, there is a recording indicator 'REC' and a notification 'Gopal Krishna Patra is presenting'. The central focus is a shared screen showing a server room with the text 'CSIR Supercomputer (Ananta)' and 'HP Cluster Platform 3000 BL460c'. A small notification at the bottom of the screen says 'meet.google.com is sharing your screen. Stop sharing Hide'. Below the screen is a control bar with icons for mute, video, chat, hand raise, share, and end call. On the right side, there is a participant list showing 'You' (with a purple 'C' icon), 'Gopal Krishna Patra' (with a video icon), and '169 others' (with a green 'S' icon). At the bottom of the window, the Windows taskbar is visible, showing the search bar, taskbar icons, and system tray with the time '5:48 PM' and date '6/5/2021'.



Attendance class-list

Date: "2021-06-(" Time:" "15:51" "Meet ID:" "mjf-zgqe-bgi"

Names	"2021-06-("	"Email"	"Comment"	"Arrival tin"	"Last Seen"	"# of Checks"	"Joined"	"Details"
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Miss.Jyothi	""	""	""					
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4jn18ec076	" âœ"	""	""	"16:09"	"16:40"	"32"	"1"	
4jn18ec073	" âœ"	""	""	"15:57"	"18:04"	"127"	"4"	"17:06 (38
4jn18ec097	" âœ"	""	""	"16:16"	"17:55"	"100"	"1"	
4jn18ec104	" âœ"	""	""	"15:59"	"18:02"	"124"	"1"	
4jn18ec107	" âœ"	""	""	"16:22"	"18:02"	"102"	"2"	"16:22 (55
4jn19ec011	" âœ"	""	""	"16:00"	"17:15"	"67"	"4"	"16:48 (28
4jn19ec045	" âœ"	""	""	"15:59"	"18:05"	"127"	"1"	
4jn19ec064	" âœ"	""	""	"15:59"	"18:04"	"126"	"13"	"17:16 (10
4jn19ec066	" âœ"	""	""	"16:03"	"18:04"	"127"	"4"	"17:56 (9n
4jn19ec067	" âœ"	""	""	"16:01"	"18:07"	"120"	"3"	"17:26 (42
4jn20ec404	" âœ"	""	""	"15:59"	"18:07"	"117"	"4"	"15:59 (11
Pradeep H	""	""	""					
Srinivasa N	""	""	""					
Sumathi K	" âœ"	""	""	"16:10"	"16:36"	"8"	"2"	"16:10 (3n
Vijayalaksh	""	""	""					
4jn19ec048	" âœ"	""	""	"16:06"	"18:04"	"119"	"1"	
Geetha Srir	" âœ"	""	""	"17:59"	"18:07"	"10"	"2"	"17:59 (4n
Prasanna K	""	""	""					



1nc18ec01	""	""	""					
4jn18ec01	" âœ"	""	""	"15:58"	"16:42"	"22"	"2"	"15:58 (20
Sneha Kash	""	""	""					
4jn19ec02	" âœ"	""	""	"15:59"	"18:04"	"126"	"1"	
4jn19ec02	""	""	""					
4jn19is403	" âœ"	""	""	"16:43"	"16:43"	"1"	"1"	
1nc18ec07	""	""	""					
Nanda Kish	""	""	""					
4jn17ec06	" âœ"	""	""	"16:07"	"18:04"	"118"	"1"	
Badrish Kp	" âœ"	""	""	"16:06"	"17:46"	"102"	"2"	"16:06 (50
1nc18ec00	""	""	""					
1nc18ec08	""	""	""					
4jn19ec10	" âœ"	""	""	"15:58"	"16:52"	"55"	"1"	
4jn17ec03	" âœ"	""	""	"16:25"	"16:51"	"27"	"1"	
4jn18ec06	" âœ"	""	""	"16:00"	"18:03"	"117"	"4"	"17:59 (5n
4jn19ec03	""	""	""					
4jn18ec05	" âœ"	""	""	"15:57"	"18:03"	"121"	"3"	"16:43 (81
4jn19ec08	" âœ"	""	""	"16:10"	"17:10"	"61"	"1"	
4jn17ec05	""	""	""					
1nc18ec02	""	""	""					
4jn17ec05	""	""	""					
4jn20ec40	" âœ"	""	""	"16:02"	"18:01"	"118"	"2"	"16:02 (35
Akshay Kur	""	""	""					
Hemanth K	""	""	""					
Jalesh Kum	""	""	""					
Sandeep Ki	" âœ"	""	""	"16:02"	"17:20"	"80"	"2"	"16:02 (77
Gita Kurunj	""	""	""					
4jn18ec06	" âœ"	""	""	"16:00"	"18:03"	"124"	"1"	
4jn19cv06	" âœ"	""	""	"15:59"	"16:00"	"2"	"1"	
4jn19ec04	" âœ"	""	""	"16:26"	"17:53"	"87"	"2"	"16:56 (58
Arun Kuma	""	""	""					
Mahesh L	""	""	""					
4jn19ec40	" âœ"	""	""	"16:01"	"18:03"	"123"	"2"	"17:17 (47
Hod Library	""	""	""					
1nc18ec01	""	""	""					
1nc18ec07	""	""	""					
4jn17ec08	" âœ"	""	""	"15:58"	"18:04"	"127"	"1"	
4jn17ec11	" âœ"	""	""	"16:32"	"16:33"	"2"	"1"	
4jn18cs01	" âœ"	""	""	"16:38"	"18:04"	"87"	"1"	
4jn18ec02	" âœ"	""	""	"15:58"	"18:05"	"129"	"2"	"17:23 (43
4jn18ec03	" âœ"	""	""	"15:58"	"18:04"	"127"	"1"	
4jn18ec08	" âœ"	""	""	"16:11"	"18:02"	"113"	"2"	"16:11 (88
4jn18ec11	" âœ"	""	""	"15:57"	"18:04"	"128"	"1"	
4jn18ec12	" âœ"	""	""	"15:57"	"17:37"	"102"	"9"	"15:57 (6n
4jn19ec00	" âœ"	""	""	"15:59"	"18:06"	"128"	"1"	
4jn19ec00	" âœ"	""	""	"15:59"	"18:06"	"128"	"1"	
4jn19ec01	" âœ"	""	""	"16:06"	"16:47"	"42"	"1"	

4jn19ec01	" âœ"	""	""	"16:02"	"18:06"	"125"	"1"	
4jn19ec02	""	""	""					
4jn19ec02	""	""	""					
4jn19ec05	" âœ"	""	""	"16:44"	"18:04"	"44"	"8"	"17:30 (5n
4jn19ec06	" âœ"	""	""	"16:03"	"17:57"	"115"	"2"	"16:11 (10
4jn19ec08	" âœ"	""	""	"16:06"	"18:07"	"123"	"2"	"17:16 (52
4jn19ec09	" âœ"	""	""	"16:03"	"16:44"	"42"	"1"	
4jn19ec09	" âœ"	""	""	"15:59"	"15:59"	"1"	"1"	
4jn19is012	" âœ"	""	""	"17:00"	"17:00"	"1"	"1"	
4jn19is019	" âœ"	""	""	"16:15"	"16:36"	"22"	"1"	
4jn19is020	" âœ"	""	""	"15:58"	"16:57"	"60"	"1"	
4jn19is032	" âœ"	""	""	"16:00"	"18:04"	"125"	"2"	"16:00 (44
Dilip M	" âœ"	""	""	"16:46"	"18:03"	"78"	"1"	
Priyanka G	""	""	""					
Ramya M	" âœ"	""	""	"15:58"	"17:42"	"105"	"2"	"17:40 (3n
Sharath S N	""	""	""					
Smitha M N	" âœ"	""	""	"16:23"	"18:04"	"102"	"1"	
Vinay M	" âœ"	""	""	"16:13"	"16:20"	"8"	"1"	
Dr. Moinud	""	""	""					
Chengappa	""	""	""					
Leena Mah	""	""	""					
Pushpa Ma	""	""	""					
Hod Maths	""	""	""					
Hod Mba	""	""	""					
Director M	""	""	""					
Latha Mca	""	""	""					
Latha Mca	""	""	""					
Hod Mech	""	""	""					
4jn17ec05	""	""	""					
1nc18ec10	""	""	""					
1nc18ec00	""	""	""					
4jn19ec07	" âœ"	""	""	"15:59"	"18:04"	"126"	"2"	"16:08 (11
4jn18ec08	" âœ"	""	""	"16:31"	"18:06"	"96"	"1"	
1nc18ec00	""	""	""					
1nc18ec01	""	""	""					
1nc18ec03	""	""	""					
1nc18ec03	""	""	""					
1nc18ec04	""	""	""					
1nc18ec10	""	""	""					
4jn16ec11	" âœ"	""	""	"16:32"	"18:04"	"93"	"1"	
4jn18ec00	" âœ"	""	""	"17:39"	"18:04"	"26"	"1"	
4jn18ec04	" âœ"	""	""	"15:57"	"18:04"	"128"	"1"	
4jn18ec40	" âœ"	""	""	"16:03"	"16:47"	"45"	"1"	
4jn18ec40	" âœ"	""	""	"15:55"	"18:05"	"131"	"2"	"17:33 (33
4jn19ec03	" âœ"	""	""	"15:58"	"18:04"	"130"	"6"	"15:58 (2n
4jn19ec03	""	""	""					
4jn19ec06	" âœ"	""	""	"15:59"	"18:04"	"126"	"1"	



4jn19ec09z	" âœ"	""	""	"16:00"	"18:04"	"125"	"1"	
4jn19ec11z	" âœ"	""	""	"16:00"	"18:06"	"116"	"4"	"17:30 (37
Prema K N	" âœ"	""	""	"16:24"	"16:57"	"33"	"2"	"16:24 (21
Shreekanth	""	""	""					
Yashwanth	""	""	""					
4jn18ec40z	" âœ"	""	""	"15:58"	"16:39"	"42"	"1"	
4jn18ec42z	" âœ"	""	""	"16:15"	"16:17"	"3"	"1"	
Geetha Naç	""	""	""					
Narasimha	" âœ"	""	""	"16:02"	"16:36"	"35"	"1"	
4jn19ec09ç	" âœ"	""	""	"15:59"	"18:04"	"126"	"1"	
4jn19ec02ç	""	""	""					
4jn19ec02ç	""	""	""					
4jn19ec06z	" âœ"	""	""	"16:00"	"18:01"	"35"	"2"	"16:00 (16
4jn19ec08z	" âœ"	""	""	"16:06"	"18:04"	"119"	"1"	
Manjunath	""	""	""					
4jn19ec03ç	" âœ"	""	""	"16:00"	"18:01"	"122"	"1"	
4jn19ec03ç	""	""	""					
4jn18ec05z	" âœ"	""	""	"16:06"	"18:04"	"120"	"2"	"16:06 (11
4jn19ec10z	" âœ"	""	""	"16:01"	"16:40"	"40"	"1"	
Hod Ec Nce	""	""	""					
Mahesh M	""	""	""					
Ram Babu l	""	""	""					
Rohith S Nc	""	""	""					
Sunil Kuma	""	""	""					
Sunitha M l	""	""	""					
Venkatesh	""	""	""					
Prof Nk	""	""	""					
4jn19ec01ç	" âœ"	""	""	"15:59"	"17:28"	"79"	"2"	"15:59 (76
Swathi Nv	" âœ"	""	""	"15:52"	"17:01"	"71"	"2"	"15:52 (9n
18ec038 Kç	""	""	""					
1nc18ec01.	""	""	""					
1nc18ec09.	""	""	""					
1nc18ec09.	""	""	""					
4jn17ec01z	" âœ"	""	""	"17:42"	"17:44"	"3"	"1"	
4jn17ec01ç	" âœ"	""	""	"16:19"	"17:00"	"42"	"1"	
4jn17ec04ç	" âœ"	""	""	"16:08"	"18:04"	"84"	"3"	"16:08 (41
4jn18ec02z	" âœ"	""	""	"16:08"	"18:05"	"118"	"1"	
4jn18ec04z	" âœ"	""	""	"15:57"	"18:07"	"131"	"1"	
4jn18ec06ç	" âœ"	""	""	"17:01"	"18:03"	"63"	"1"	
4jn19ec00ç	" âœ"	""	""	"16:00"	"18:05"	"126"	"1"	
4jn19ec03z	" âœ"	""	""	"17:11"	"18:04"	"54"	"1"	
4jn19ec04z	" âœ"	""	""	"16:01"	"18:04"	"118"	"4"	"16:05 (44
4jn19ec05z	" âœ"	""	""	"16:02"	"18:07"	"126"	"1"	
4jn19ec07ç	" âœ"	""	""	"15:56"	"18:06"	"130"	"2"	"17:43 (24
4jn19ec08ç	" âœ"	""	""	"16:06"	"18:05"	"120"	"4"	"16:39 (27
4jn19ec10z	" âœ"	""	""	"16:35"	"16:47"	"13"	"1"	
Ajay Betur	" âœ"	""	""	"16:09"	"18:07"	"119"	"1"	

Ashwini S P	""	""	""					
Chandan P	" âœ"	""	""	"16:10"	"16:18"	"9"	"1"	
Dr Raghav	""	""	""					
Gaurav P	" âœ"	""	""	"16:28"	"17:00"	"33"	"1"	
Manjunath	""	""	""					
Sunitha G F	""	""	""					
18ec064 P.	""	""	""					
4jn17ec061	" âœ"	""	""	"16:01"	"16:58"	"58"	"1"	
1nc18ec03	""	""	""					
4jn19ec057	""	""	""					
Gopal Krish	" âœ"	""	""	"15:57"	"18:04"	"218"	"4"	"17:11 (53
Anandarar	""	""	""					
4jn18ec002	" âœ"	""	""	"15:57"	"17:32"	"85"	"2"	"16:23 (70
1nc18ec04	""	""	""					
4jn18ec060	" âœ"	""	""	"16:07"	"17:24"	"78"	"1"	
Pragna Pra	" âœ"	""	""	"16:09"	"16:11"	"3"	"1"	
4jn19ec072	" âœ"	""	""	"16:05"	"18:06"	"117"	"2"	"17:27 (40
4jn19ec077	" âœ"	""	""	"16:03"	"18:04"	"116"	"5"	"16:03 (35
1nc18ec07	""	""	""					
1nc18ec08	""	""	""					
1nc19ec40	""	""	""					
4jn17ec020	" âœ"	""	""	"16:00"	"16:19"	"19"	"2"	"16:17 (3n
4jn17ec028	" âœ"	""	""	"15:58"	"16:48"	"51"	"1"	
4jn17ec065	" âœ"	""	""	"15:57"	"18:07"	"134"	"3"	"16:06 (11
4jn17ec072	" âœ"	""	""	"15:59"	"16:01"	"3"	"1"	
4jn18ec012	" âœ"	""	""	"15:57"	"16:54"	"58"	"1"	
4jn18ec015	" âœ"	""	""	"16:00"	"18:00"	"119"	"4"	"16:32 (17
4jn18ec021	" âœ"	""	""	"15:59"	"16:26"	"28"	"1"	
4jn18ec080	" âœ"	""	""	"16:00"	"18:07"	"128"	"1"	
4jn18ec088	" âœ"	""	""	"16:07"	"18:04"	"95"	"2"	"16:07 (92
4jn18ec098	" âœ"	""	""	"16:06"	"18:06"	"121"	"1"	
4jn18ec112	" âœ"	""	""	"16:03"	"18:07"	"125"	"1"	
4jn18ec414	" âœ"	""	""	"16:06"	"17:21"	"76"	"1"	
4jn19ec015	" âœ"	""	""	"16:17"	"18:07"	"111"	"1"	
4jn19ec026	" âœ"	""	""	"16:05"	"18:06"	"122"	"1"	
4jn19ec026	""	""	""					
4jn19ec036	" âœ"	""	""	"16:27"	"17:00"	"34"	"1"	
4jn19ec062	" âœ"	""	""	"16:00"	"18:05"	"126"	"1"	
4jn19ec111	" âœ"	""	""	"16:10"	"18:07"	"118"	"1"	
4jn20ec414	" âœ"	""	""	"15:59"	"17:25"	"88"	"3"	"17:02 (24
4jn20ec414	""	""	""					
Chetan K R	" âœ"	""	""	"15:51"	"18:07"	"135"	"2"	"18:04 (4n
Darshini R	""	""	""					
4jn19ec072	" âœ"	""	""	"15:58"	"18:07"	"130"	"1"	
4jn19ec075	" âœ"	""	""	"16:02"	"18:07"	"126"	"1"	
4jn18ec066	" âœ"	""	""	"16:01"	"17:47"	"107"	"1"	
1nc16ec06	""	""	""					

Manasa Ra	""	""	""					
4jn19ec104	" âœ"	""	""	"16:09"	"18:03"	"115"	"1"	
Sandhya Ra	""	""	""					
Vidya Rani.	" âœ"	""	""	"16:07"	"16:13"	"7"	"1"	
Sushma Rb	""	""	""					
1nc18ec06	""	""	""					
1nc18ec09	""	""	""					
18ec054_ \	""	""	""					
18ec022 -C	""	""	""					
1nc17ec03	""	""	""					
4jn19ec027	" âœ"	""	""	"15:59"	"17:59"	"121"	"1"	
1nc18ec00	""	""	""					
1nc18ec02	""	""	""					
1nc18ec06	""	""	""					
1nc18ec06	""	""	""					
1nc18ec06	""	""	""					
1nc18ec08	""	""	""					
4jn17ec034	" âœ"	""	""	"16:11"	"17:11"	"61"	"1"	
4jn17ec055	""	""	""					
4jn17ec085	" âœ"	""	""	"16:13"	"17:34"	"82"	"1"	
4jn17ec105	" âœ"	""	""	"15:58"	"17:19"	"82"	"1"	
4jn18ec054	" âœ"	""	""	"15:57"	"16:51"	"56"	"3"	"16:00 (52
4jn18ec064	" âœ"	""	""	"16:00"	"16:14"	"15"	"1"	
4jn18ec081	" âœ"	""	""	"16:06"	"18:03"	"118"	"1"	
4jn18ec085	" âœ"	""	""	"16:16"	"18:04"	"109"	"2"	"17:22 (43
4jn18ec101	" âœ"	""	""	"15:58"	"17:56"	"119"	"1"	
4jn18ec105	" âœ"	""	""	"16:03"	"16:13"	"11"	"1"	
4jn19ec015	" âœ"	""	""	"15:55"	"18:04"	"130"	"1"	
4jn19ec015	""	""	""					
4jn19ec032	" âœ"	""	""	"15:59"	"18:04"	"126"	"2"	"15:59 (78
4jn19ec068	" âœ"	""	""	"15:57"	"18:06"	"130"	"1"	
4jn19ec101	" âœ"	""	""	"15:59"	"18:07"	"129"	"1"	
4jn19ec407	" âœ"	""	""	"15:59"	"18:03"	"125"	"1"	
4jn19ec405	" âœ"	""	""	"16:00"	"16:34"	"31"	"2"	"16:21 (14
4jn20ec406	" âœ"	""	""	"16:02"	"18:04"	"123"	"1"	
4jn20ec408	" âœ"	""	""	"16:10"	"18:05"	"116"	"1"	
4jn20ec408	""	""	""					
4jn20ec405	" âœ"	""	""	"15:59"	"18:05"	"127"	"5"	"16:39 (26
4jn20ec411	" âœ"	""	""	"16:07"	"16:48"	"42"	"1"	
4jn20ec416	" âœ"	""	""	"15:56"	"18:05"	"130"	"1"	
Dr Subhadra	""	""	""					
Dr. Pramoc	" âœ"	""	""	"15:57"	"18:07"	"132"	"2"	"16:27 (10
Jalaja S	""	""	""					
Komala Pat	" âœ"	""	""	"16:08"	"16:11"	"4"	"1"	
Mallesha Ku	""	""	""					
Narendrak	""	""	""					
Prabhudev	""	""	""					

Prashanth C	" ��"	""	""	"15:58"	"17:27"	"90"	"1"	
Rachana B	" ��"	""	""	"16:16"	"16:22"	"7"	"1"	
Roopa B S	" ��"	""	""	"16:07"	"16:34"	"16"	"2"	"16:07 (6n
Sheela S	" ��"	""	""	"15:55"	"18:04"	"130"	"1"	
Smitha S	" ��"	""	""	"16:02"	"18:05"	"119"	"4"	"16:35 (55
Suhas N S	" ��"	""	""	"16:06"	"16:08"	"3"	"1"	
Suhas S	" ��"	""	""	"15:59"	"17:19"	"64"	"2"	"16:58 (22
Suman S	" ��"	""	""	"15:57"	"17:34"	"97"	"3"	"17:24 (11
Uday S	" ��"	""	""	"16:22"	"16:24"	"3"	"1"	
Ujwala B S	" ��"	""	""	"15:53"	"17:51"	"110"	"6"	"15:56 (40
Varshitha S	" ��"	""	""	"15:57"	"16:38"	"42"	"1"	
Jagadeesh�	""	""	""					
4jn18ec07�	" ��"	""	""	"15:58"	"18:05"	"128"	"2"	"18:05 (1n
4jn19is051	" ��"	""	""	"17:07"	"17:07"	"1"	"1"	
4jn19ec04�	" ��"	""	""	"16:07"	"16:13"	"7"	"2"	"16:10 (4n
4jn19ec047	" ��"	""	""	"16:00"	"18:04"	"125"	"1"	
4jn18ec04�	" ��"	""	""	"16:02"	"17:19"	"78"	"1"	
Amra Seer	" ��"	""	""	"16:15"	"18:06"	"112"	"1"	
4jn18ec017	" ��"	""	""	"15:57"	"18:04"	"128"	"1"	
4jn18ec06�	" ��"	""	""	"16:38"	"18:00"	"41"	"2"	"16:38 (6n
4jn20ec407	""	""	""					
Gautham S	" ��"	""	""	"15:58"	"18:04"	"127"	"1"	
Dr. Mohan	""	""	""					
4jn17ec11�	" ��"	""	""	"16:08"	"18:04"	"100"	"2"	"17:36 (29
1nc18ec08	""	""	""					
4jn18ec03�	" ��"	""	""	"15:59"	"17:03"	"66"	"2"	"16:45 (19
4jn18ec12�	" ��"	""	""	"15:59"	"18:04"	"126"	"1"	
Ravi Shet	" ��"	""	""	"15:51"	"17:42"	"112"	"2"	"15:52 (11
4jn17ec05�	""	""	""					
4jn18ec03�	" ��"	""	""	"15:57"	"18:03"	"127"	"1"	
4jn19ec071	" ��"	""	""	"15:51"	"18:05"	"134"	"4"	"16:05 (19
Jaya Shree	""	""	""					
Nikhitha Sh	""	""	""					
4jn17ec00�	" ��"	""	""	"16:22"	"17:04"	"45"	"2"	"16:24 (41
Future Skill	""	""	""					
4jn19ec11�	" ��"	""	""	"15:56"	"18:04"	"138"	"11"	"15:56 (2n
4jn19ec11�	""	""	""					
4jn20ec41�	""	""	""					
4jn20ec41�	""	""	""					
4jn19ec05�	" ��"	""	""	"16:19"	"17:35"	"77"	"1"	
4jn19is095	" ��"	""	""	"16:35"	"16:36"	"2"	"1"	
18ec015 C	""	""	""					
4jn17ec101	" ��"	""	""	"15:58"	"17:34"	"61"	"4"	"17:34 (1n
Manjula Su	" ��"	""	""	"15:56"	"18:04"	"124"	"6"	"16:10 (11
Mallanna S	""	""	""					
Arshiya Sul	""	""	""					
4jn18ec097	" ��"	""	""	"15:58"	"16:16"	"19"	"1"	



4jn17ec03	" "	" "	" "	"15:58"	"16:05"	"8"	"1"	
Manjunath	" "	" "	" "					
Harish T.S	" "	" "	" "	"16:08"	"17:11"	"64"	"1"	
Dr. Ushade	" "	" "	" "					
Dr. Bindu T	" "	" "	" "					
4jn19ec11	" "	" "	" "	"15:58"	"16:56"	"59"	"1"	
4jn17ec05	" "	" "	" "	"16:09"	"16:29"	"21"	"1"	
4jn18ec09	" "	" "	" "	"16:01"	"18:04"	"124"	"1"	
4jn17ec04	" "	" "	" "	"15:58"	"17:50"	"11"	"3"	"16:39 (3n
Jnnce Abhil	" "	" "	" "	"16:27"	"18:07"	"101"	"1"	
4jn18ec10	" "	" "	" "	"16:05"	"16:24"	"20"	"1"	
4jn17ec10	" "	" "	" "	"16:25"	"16:52"	"28"	"1"	
1nc18ec00	" "	" "	" "					
1nc18ec05	" "	" "	" "					
1nc18ec06	" "	" "	" "					
1nc18ec09	" "	" "	" "					
4jn18ec02	" "	" "	" "	"17:50"	"18:04"	"15"	"1"	
4jn18ec09	" "	" "	" "	"16:00"	"18:04"	"126"	"4"	"16:00 (33
4jn18ec11	" "	" "	" "	"15:57"	"18:01"	"125"	"1"	
4jn19ec05	" "	" "	" "	"16:09"	"17:07"	"53"	"3"	"16:44 (24
4jn19ec40	" "	" "	" "	"16:00"	"18:03"	"95"	"5"	"17:36 (3n
4jn19is066	" "	" "	" "	"16:22"	"16:23"	"4"	"2"	"16:22 (2n
Anvitha K v	" "	" "	" "	"17:16"	"17:48"	"33"	"1"	
Darshan K \	" "	" "	" "	"15:59"	"17:32"	"94"	"1"	
Dr.Sathyan	" "	" "	" "					
Harish V	" "	" "	" "					
Pavan E V	" "	" "	" "					
Sreenivasa	" "	" "	" "					
Sandhya Vç	" "	" "	" "					
4jn19ec00	" "	" "	" "	"16:09"	"18:05"	"117"	"5"	"16:09 (3n
Vidya Venu	" "	" "	" "					
4jn18ec11	" "	" "	" "	"15:58"	"18:04"	"126"	"2"	"15:58 (64
4jn19ec05	" "	" "	" "	"15:59"	"18:04"	"126"	"1"	
Vachana Vi	" "	" "	" "					
4jn18ec06	" "	" "	" "	"15:59"	"18:04"	"126"	"1"	
4jn19ec10	" "	" "	" "	"16:49"	"18:04"	"76"	"1"	
4jn20ec41	" "	" "	" "	"16:01"	"18:05"	"126"	"2"	"16:47 (79
4jn17ec06	" "	" "	" "					
Vijay Yellaç	" "	" "	" "					
à²`à³fà²à²) " "	" "	" "	" "	"16:22"	"17:00"	"39"	"1"	

16:10 (62r 16:00 (11r 17:17 (20min) [ 17:36 ]

16:56 (11min) [ 17:06 ]

17:10 (9mi 17:22 (43r 17:01 (9min) [ 17:09 ]

15:59 (14min) [ 16:12 ]

15:58 (9min) [ 16:06 ]

16:03 (125min) [ 18:07 ]

16:44 (78min) [ 18:01 ]

16:22 (46r 16:06 (8min) [ 16:13 ]

16:17 (14r 16:01 (12r 16:00 (2mi 15:57 (2min) [ 15:58 ]

15:57 (45r 16:41 (4min) [ 16:44 ]

15:58 (104min) [ 17:41 ]

16:05 (120min) [ 18:04 ]

16:04 (54min) [ 16:57 ]

16:06 (3min) [ 16:08 ]

16:06 (52min) [ 16:57 ]

16:00 (125min) [ 18:04 ]

16:04 (11min) [ 16:14 ]

17:52 (13min) [ 18:04 ]

16:03 (13min) [ 16:15 ]

17:44 (22min) [ 18:05 ]

16:09 (116min) [ 18:04 ]

16:25 (7min) 16:31 (94min) 16:01 (19min) [ 16:19 ]

16:36 (5min) [ 16:40 ]

16:42 (83r 15:58 (14min) [ 16:11 ]

16:02 (37min) [ 16:38 ]

16:09 (42r 16:53 (70min) [ 18:02 ]

16:02 (76min) [ 17:17 ]

16:10 (26r 16:53 (3mi 16:59 (24r 17:47 (18r 17:36 (4mi 18:04 (2min) [ 18:05 ]

16:38 (45r 16:00 (38min) [ 16:37 ]

16:22 (46r 16:20 (1min) [ 16:20 ]

16:08 (28r 17:01 (67min) [ 18:07 ]

17:27 (3mi 16:14 (22r 17:37 (7mi 17:44 (21min) [ 18:04 ]

16:06 (86r 17:59 (9mi 17:32 (10min) [ 17:41 ]

15:56 (3mi 17:31 (25r 16:29 (8mi 17:57 (11r 16:11 (8mi 16:38 (53min) [ 17:30 ]

17:54 (11r 16:00 (43min) [ 16:42 ]



17:55 (12r 16:32 (82r 17:54 (1min) [ 17:54 ]

16:00 (57r 17:17 (18min) [ 17:34 ]

16:16 (66r 16:02 (15min) [ 16:16 ]

16:12 (24r 15:56 (17r 17:27 (10r 16:36 (46min) [ 17:21 ]

15:55 (54r 16:49 (30min) [ 17:18 ]

15:57 (106r 17:57 (8min) [ 18:04 ]

15:56 (66min) [ 17:01 ]

16:47 (3min) [ 16:49 ]

16:00 (74min) [ 17:13 ]

18:04 (1mi 15:57 (68r 17:45 (20min) [ 18:04 ]

17:16 (47min) [ 18:02 ]

16:19 (18r 16:00 (19r 16:47 (2min) [ 16:48 ]

17:39 (4mi 17:55 (10r 16:05 (4mi 17:31 (9mi 16:42 (12r 16:13 (30r 17:44 (11r 16:01 (4mi 15:59 (3mi

16:03 (93r 17:35 (3mi 17:36 (22min) [ 17:57 ]

16:01 (65r 17:04 (13min) [ 17:16 ]

18:07 (1mi 17:31 (32r 16:17 (73min) [ 17:29 ]

16:32 (5min) [ 16:36 ]

18:02 (6min) [ 18:07 ]

16:41 (2min) [ 16:42 ]

16:55 (52min) [ 17:46 ]

17:32 (24r 16:09 (82r 16:00 (6min) [ 16:05 ]

15:57 (35r 16:34 (5min) [ 16:38 ]

16:39 (83min) [ 18:01 ]

17:18 (3min) [ 17:20 ]

16:26 (29min) [ 16:54 ]

16:01 (76min) [ 17:16 ]

15:58 (86min) [ 17:23 ]

17:38 (25min) [ 18:02 ]

17:26 (2mi 16:04 (18r 17:33 (2mi 16:22 (63r 17:25 (2mi 17:30 (4mi 16:02 (2mi 17:35 (3min) [ 17:37 ]

17:22 (1mi| 16:50 (8mi| 17:15 (4mi| 17:59 (6mi| 17:42 (4mi| 16:59 (14r| 16:44 (2min) [ 16:45 ]

16:03 (8min) [ 16:10 ]

16:06 (71min) [ 17:16 ]

16:44 (81min) [ 18:04 ]

15:58 (102min) [ 17:39 ]

15:59 (9min) [ 16:07 ]

15:55 (98min) [ 17:32 ]

17:51 (14r| 17:21 (10r| 17:30 (21r| 16:34 (47r| 16:00 (36min) [ 16:35 ]

16:00 (41r 16:52 (30r 16:44 (8min) [ 16:51 ]  
16:46 (12min) [ 16:57 ]

17:43 (19min) [ 18:01 ]

16:16 (109min) [ 18:04 ]

17:26 (3min) [ 17:28 ]  
16:00 (62min) [ 17:01 ]

17:29 (36r 16:49 (7min) [ 16:55 ]

16:01 (2mi| 17:28 (37r 16:48 (35min) [ 17:22 ]

15:56 (106min) [ 17:41 ]  
17:13 (53r 17:06 (7mi| 16:06 (33min) [ 16:38 ]



15:57 (128i 16:47 (24r 16:34 (13min) [ 16:46 ]

15:57 (15min) [ 16:11 ]

16:05 (77min) [ 17:21 ]

16:46 (23r 17:08 (40r 17:47 (2mi 17:49 (16min) [ 18:04 ]

16:00 (16min) [ 16:15 ]

15:57 (10r 17:58 (10min) [ 18:07 ]

16:00 (22r 16:52 (69r 16:22 (11min) [ 16:32 ]

18:02 (3min) [ 18:04 ]

16:59 (3mi 15:59 (61min) [ 16:59 ]

15:51 (131min) [ 18:01 ]

15:58 (2mi 15:57 (2min) [ 15:58 ]

16:16 (66min) [ 17:21 ]

17:17 (48min) [ 18:04 ]

16:00 (17min) [ 16:16 ]

16:23 (17r 15:59 (24r 17:12 (54r 17:05 (6min) [ 17:10 ]

15:57 (31min) [ 16:27 ]

16:25 (10min) [ 16:34 ]

17:29 (37r 16:02 (12r 16:14 (15min) [ 16:28 ]

15:59 (42min) [ 16:40 ]

15:59 (85r 15:57 (1min) [ 15:57 ]

17:29 (8mi 15:53 (17r 16:35 (28r 17:47 (5mi 17:16 (12min) [ 17:27 ]

15:58 (127min) [ 18:04 ]

16:07 (3min) [ 16:09 ]

17:26 (35min) [ 18:00 ]

16:08 (71min) [ 17:18 ]

15:59 (47min) [ 16:45 ]

15:51 (1min) [ 15:51 ]

15:51 (4mi 16:25 (101 15:55 (10min) [ 16:04 ]

16:22 (4min) [ 16:25 ]

17:22 (21r 16:54 (30r 16:36 (8mi 17:58 (7mi 16:44 (3mi 15:58 (1mi 16:45 (9mi 15:59 (9mi 16:09 (29r

16:41 (16r 15:58 (27r 16:24 (17min) [ 16:40 ]

15:56 (1mi 16:01 (1mi 16:02 (1mi 15:57 (1mi 16:05 (5min) [ 16:09 ]

15:58 (6mi| 17:49 (2min) [ 17:50 ]

16:34 (10r| 16:43 (47r| 17:29 (36min) [ 18:04 ]

16:15 (23r| 16:09 (6min) [ 16:14 ]

17:59 (5mi| 16:00 (76r| 17:38 (8mi| 17:45 (3min) [ 17:47 ]

16:22 (2min) [ 16:23 ]

16:33 (93r| 16:15 (3mi| 16:11 (4mi| 16:18 (14min) [ 16:31 ]

17:03 (62min) [ 18:04 ]

16:01 (47min) [ 16:47 ]









17:03 (12r 17:26 (7mi 16:53 (10min) [ 17:02 ]











17:41 (19min) [ 17:59 ]