



## St. JOSEPH'S COLLEGE (AUTONOMOUS)

Accredited at A++ Grade (4<sup>th</sup> Cycle) by NAAC.  
Special Heritage Status College awarded by UGC.  
College with Potential for Excellence by UGC.  
26<sup>th</sup> Rank in NIRF

DBT-STAR & DST-FIST sponsored college.

Tiruchirappalli - 620 002



### DEPARTMENT OF COMMERCE HONOURS

*Cordially invites you for*

## INAUGURATION OF COMMERCE HONOURS ASSOCIATION AND THREE - DAY PLACEMENT TRAINING

Date: 23/08/2022 | Time: 10.00 AM | Venue: SAIL Auditorium

### Presidential Address

Rev. Dr. M. Arockiasamy Xavier SJ

Principal

### Felicitation

Rev. Dr. K. Amal SJ

Secretary

Dr. F. R. Alexander Pravin Durai

Head, Department of Commerce Honours

### Resource Persons

Mr. Hadrine H Pereira

Head - Corporate Relations & Placement

International Skill Development Corporation, New Delhi

Ms. Archana Unnikrishnan

Asst. Manager - Corporate Relations & Placement

International Skill Development Corporation, Bengaluru

### Organising Committee

Prof. J. Camilton

President, Association of Commerce Honours

Prof. G. Prabhakaran

Vice - President, Association of Commerce Honours

*All are invited!*

Dr. F.R.ALEXANDER PRAVIN DURAI,  
M.Com., MBA., M.Phil., Ph.D.,  
Head

Department of B. COM Honours  
St. Joseph's College (Autonomous)  
Tiruchirappalli - 620 002





DEPARTMENT OF COMMERCE HONOURS  
ST. JOSEPH'S COLLEGE (AUTONOMOUS), TRICHY - 02

A Report on THREE - DAY PLACEMENT TRAINING PROGRAMME

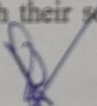
The Department of Commerce Honours in collaboration with International skills development corporation (ISDC) organised a three day placement training programme for the students of III B.COM Honours from 23<sup>rd</sup> August 2022 to 25<sup>th</sup> August 2022 in Commerce AV Hall. Mr. Hadrine H Pereira, Head, Corporate Relations & Placement, International Skill Development Corporation from Delhi and Ms. Archana Unnikrishnan, Asst. Manager, Corporate Relations & Placement, International Skill Development Corporation from Bangalore were the trainers for this programme. The programme was aimed to assist the students to make them job-ready and enhance the vitality of them getting fully equipped towards further career prospects and endeavours. The session aimed at making the students feel stress-free towards interviews, gain a better understanding of the corporate culture and manner. They were trained to feel confident and resilient towards any failure that could hinder their progress in the career ladder.

On the pretext of the programme, a briefing session was held by ISDC. They communicated the rules, guidelines, dress code and other programme related details to the students. The discipline masters, technical in-charges and activity in-charges were appointed.

**DAY - 1**

Immediately after the Inauguration of the Association, the III year students headed towards the Commerce AV Hall. The resource persons explained the entire schedule of the programme and imparted its importance. There were initial ice-breaking sessions.

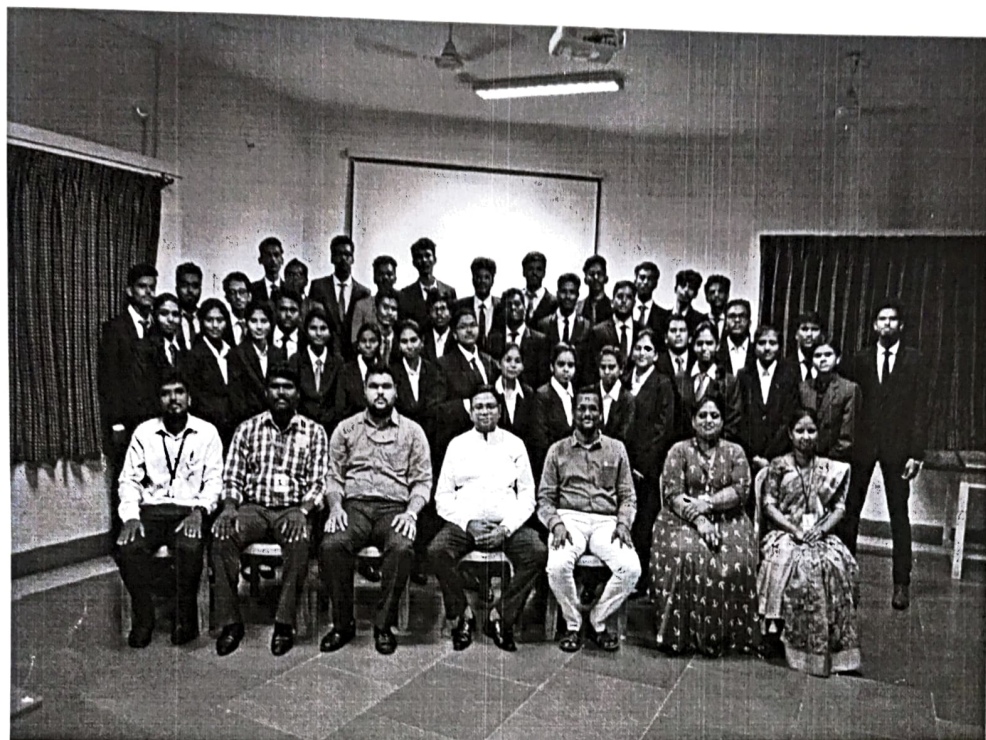
On Day 1, the dress code for the students was formals. The students were asked to select their pairs and a peer-related introduction of each other took place. Followed by, Mr. Hadrine and Ms. Archana engaged the students with their sessions that focused

  
Dr. F. ALEXANDER PRAVIN DURAI,  
M.Com., MBA, M.Phil., Ph.D.,  
Head  
Department of B.COM Honours  
St. Joseph's College (Autonomous)  
Trichirappalli-620 002



DEPARTMENT OF COMMERCE HONOURS  
ST. JOSEPH'S COLLEGE (AUTONOMOUS), TRICHY - 02

THREE - DAY PLACEMENT TRAINING PROGRAM



Dr. F.R.ALEXANDER PRAVIN DURAI,  
M.Com.,MBA.,M.Phil.,Ph.D.,  
Head  
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St. Joseph's College (Autonomous)  
Tiruchirappalli-620 002



**St. JOSEPH'S COLLEGE (AUTONOMOUS)**  
**TIRUCHIRAPPALLI - 620 002**

**DEPARTMENT OF COMMERCE HONOURS**  
**THREE - DAY PLACEMENT TRAINING PROGRAMME**  
**VENUE: COMMERCE AV HALL**  
**ATTENDANCE SHEET**

S No.	D. No.	Name	Signature		
			DAY 1 (23.08.2022)	DAY 2 (24.08.2022)	DAY 3 (25.08.2022)
1	20UCR501	NITHYA SHRI D	<i>D. Nithyashri</i>	<i>D. Nithyashri</i>	<i>D. Nithyashri</i>
2	20UCR502	PAUL JUDE SHAJI	<i>Paul</i>	<i>Paul</i>	<i>Paul</i>
3	20UCR503	NANDANA TV	<i>Nandana TV</i>	<i>Nandana TV</i>	<i>Nandana TV</i>
4	20UCR504	CATHERINE VIMALI G	<i>Catherine Vimali G</i>	<i>Catherine Vimali G</i>	<i>Catherine Vimali G</i>
5	20UCR505	G J VENITA JAS	<i>G J Venita Jas</i>	<i>G J Venita Jas</i>	<i>G J Venita Jas</i>
6	20UCR506	ARUL JENI T	<i>Arul Jeni T</i>	<i>Arul Jeni T</i>	<i>Arul Jeni T</i>
7	20UCR507	NIJANTHAN V	<i>V. Nijanthan</i>	<i>V. Nijanthan</i>	<i>V. Nijanthan</i>
8	20UCR508	VIMAL R	<i>Vimal R</i>	<i>Vimal R</i>	<i>Vimal R</i>
9	20UCR509	MOHAMED ARIF S	<i>Arif S</i>	<i>Arif S</i>	<i>Arif S</i>
10	20UCR510	YOGESHVAREE N	<i>N. Yogeshvaree</i>	<i>N. Yogeshvaree</i>	<i>N. Yogeshvaree</i>
11	20UCR511	ASHWINKHAANT B	<i>Ashwinkhaant B</i>	<i>Ashwinkhaant B</i>	<i>Ashwinkhaant B</i>
12	20UCR512	NANDAKUMAR S	<i>Nandakumar S</i>	<i>Nandakumar S</i>	<i>Nandakumar S</i>
13	20UCR513	ARSHAK ATHIL N.M	<i>Arshak Athil N.M</i>	<i>Arshak Athil N.M</i>	<i>Arshak Athil N.M</i>
14	20UCR514	MONISHA THANGAM M	<i>M. Monisha Thangam</i>	<i>M. Monisha Thangam</i>	<i>M. Monisha Thangam</i>
15	20UCR515	GIRI PRASANTH M R	<i>Giri Prasanth M R</i>	<i>Giri Prasanth M R</i>	<i>Giri Prasanth M R</i>
16	20UCR516	SIVASURYA.M	<i>Sivasurya M</i>	<i>Sivasurya M</i>	<i>Sivasurya M</i>
17	20UCR517	JAYARAM GANDHI H	<i>H. Jayaram Gandhi</i>	<i>H. Jayaram Gandhi</i>	<i>H. Jayaram Gandhi</i>
18	20UCR518	V. CELVAA KUMARAN	<i>V. Celvaa Kumaran</i>	<i>V. Celvaa Kumaran</i>	<i>V. Celvaa Kumaran</i>
19	20UCR519	MANESH			
20	20UCR520	ALEX SAM PAUL M	<i>Alex Sam Paul M</i>	<i>Alex Sam Paul M</i>	<i>Alex Sam Paul M</i>
21	20UCR521	JECINO JUDES MINU C M	<i>Jecino Jude Minu C M</i>	<i>Jecino Jude Minu C M</i>	<i>Jecino Jude Minu C M</i>
22	20UCR522	NAGUL ISHANTH	<i>N. Nagul Ishanth</i>	<i>N. Nagul Ishanth</i>	<i>N. Nagul Ishanth</i>
23	20UCR523	A VINNARASI	<i>A. Vinnarasi</i>	<i>A. Vinnarasi</i>	<i>A. Vinnarasi</i>
24	20UCR524	AADHI. N	<i>Aadhi N</i>	<i>Aadhi N</i>	<i>Aadhi N</i>
25	20UCR525	A.HARIHARASUDHAN	<i>A. Hariharasudhan</i>	<i>A. Hariharasudhan</i>	<i>A. Hariharasudhan</i>
26	20UCR526	PON MONICKA	<i>R. Pon Monicka</i>	<i>R. Pon Monicka</i>	<i>R. Pon Monicka</i>
27	20UCR527	SAKTHI MUTHURAM	<i>S. Sakthi Muthuram</i>	<i>S. Sakthi Muthuram</i>	<i>S. Sakthi Muthuram</i>



	20UCR528	SIVAPERUMAL . P	P. Sivaperumal	P. Sivaperumal	P. Sivaperumal
29	20UCR529	SANDHIYA S M	Sandhiya SM	Sandhiya SM	Sandhiya SM
30	20UCR530	JAYASOORYAH S	S. Jayasooriah	S. Jayasooriah	S. Jayasooriah
31	20UCR531	PAVITHRA.V	V. Pavithra	V. Pavithra	V. Pavithra
32	20UCR532	ANJANI	V. Anjan	V. Anjan	V. Anjan
33	20UCR533	J. JEYA AISHWARYA	J. Jeya Aishwarya	J. Jeya Aishwarya	J. Jeya Aishwarya
34	20UCR534	NITHISBABU S	S. Nithisbabu	S. Nithisbabu	S. Nithisbabu
35	20UCR535	GNANA JOSHUA A	A. Gnana Joshua 23/08/22	A. Gnana Joshua 24/08/22	A. Gnana Joshua 25/08/22
36	20UCR536	BHARATH RAGHUL R	R. Bharath Raghul	R. Bharath Raghul	R. Bharath Raghul
37	20UCR537	LOKESH VARMA .B .J	B. Lokesh Varma	B. Lokesh Varma	B. Lokesh Varma
38	20UCR538	NIRMAL S	S. Nirmal	S. Nirmal	S. Nirmal

  
**Dr. F. ALEXANDER PRAVIN DURAI,**  
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 Head  
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 Tiruchirappalli, 620 032



mainly on 'Personality Development'. A newspaper activity was assigned to the students to critically analyse the news and present the same.

## **DAY - 2**

The dress code for this day was casuals. The session started with the newspaper activity. Followed by, Mr. Hadrine engaged the students on further aspects of career development and corporate culture through real-life examples, inspirational videos and anecdotes. The sessions focused on soft skills enhancement mainly focused on critical thinking and other essential interview skills.

After lunch, the sessions were much rigorous with a prime focus towards 'Resume Building' and the mock interview process for the next day. The students were critically observed based on their interest level and potential intellectual acumen. A stress cloud was purposefully installed so that the students will take the sessions seriously and rigorously prepare for their mock interview process.

The newspaper presentations were critically analysed by Mr. Hadrine.

## **DAY - 3**

The dress code for this day was blazer, tie and formal attire. The session started with the Aptitude test ranging upto 45 minutes. After that, a talent show was conducted. The students expressed their talents through singing, drawing, painting, mimicry etc. After this, group discussion (GD) was conducted and mentored by Mr. Hadrine. Various groups were divided and the difficulty ranged from simple to complex based on the ability of the students.

After lunch, the mock interview sessions were conducted by ISDC resources persons and external panel lists from Industry. There were two panels and each student was interviewed for a minimum of 20 minutes. It was at this stage that the seeds sown during the programme were evidently found to be germinating and producing fruit.

After the mock interviews, a group photo was taken and after a sublime farewell, the students and the resource persons left.

After a week, participation certificates were issued to the students from ISDC.

  
**Dr. F.R.ALEXANDER PRAVIN DURAI,**  
M.Com., MBA., M.Phil., Ph.D.,  
Head  
Department of B.COM Honours  
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Tiruchirappalli-620 002





Mr. J.Camilton &lt;camilton\_co2@mail.sjctni.edu&gt;

## Request for ACCA - FR , FM & AA Classes

**ISDC Tamil Nadu Academics** <tamilnadu.academics@isdcglobal.org>

Tue, Feb 28, 2023 at 2:31 PM

To: "Mr. J.Camilton" &lt;camilton\_co2@mail.sjctni.edu&gt;

Cc: "Mr. G.PRABAKARAN" &lt;prabakaran\_co2@mail.sjctni.edu&gt;, "Ms. Mary Magdalene. A" &lt;marymagdalene\_cr2@mail.sjctni.edu&gt;, Alexander Pravindurai &lt;pravindurai@gmail.com&gt;, Aravind ISDC &lt;aravind.cr@isdcglobal.org.uk&gt;, Aaira Fathima &lt;fathima.imraz@isdcglobal.org&gt;, Academics Support &lt;academics.support@isdcglobal.org.uk&gt;, Darpan Jain &lt;darpan.jain@isdcglobal.org.uk&gt;

Dear Camilton Sir,

As discussed over the call, the remaining AA session for the 2020 batch will start on March 2nd, 2023. Please find attached the schedule for your reference.

If you require any further assistance, feel free to contact me.

**Thanks & Regards,****Subathra S****Academics and Operations Support Associate**

**Global Head Quarters**  
The Old Court House  
Hughenden Road  
Buckinghamshire, HP13 5DT  
United Kingdom, Tel : +44 20 376 33333

**Regional Office: India**  
10/1, 4th Floor, Lakshmi Narayan Complex  
Palace Road, Vasanth Nagar  
Bengaluru - 560052, Karnataka  
India, Tel : +91 80 4645 8899

Official Education Partner



tamilnadu.academics@isdcglobal.org | +91 8046458 899 | +91 9606474860

On Mon, Feb 27, 2023 at 3:43 PM Mr. J.Camilton <camilton\_co2@mail.sjctni.edu> wrote:

[Quoted text hidden]

**SJC-AA-2020-Darpan Jain.xlsx**  
10K





Mr. J.Camilton &lt;camilton\_co2@mail.sjctni.edu&gt;

## Request for ACCA - FR , FM & AA Classes

ISDC Tamil Nadu Academics &lt;tamilnadu.academics@isdglobal.org&gt;

Wed, Mar 8, 2023 at 6:47 PM

To: "Mr. J.Camilton" &lt;camilton\_co2@mail.sjctni.edu&gt;

Cc: "Mr. G.PRABAKARAN" &lt;prabakaran\_co2@mail.sjctni.edu&gt;, "Ms. Mary Magdalene. A" &lt;marymagdalene\_cr2@mail.sjctni.edu&gt;, Alexander Pravindurai &lt;pravindurai@gmail.com&gt;, Aravind ISDC &lt;aravind.cr@isdglobal.org.uk&gt;, Aaira Fathima &lt;fathima.imraz@isdglobal.org&gt;, Academics Support &lt;academics.support@isdglobal.org.uk&gt;

Dear Camilton Sir,

As discussed over the call, The FA session for the 2022 batch starts tomorrow (09/03/2023). Please find attached the schedule and faculty profile for your reference.

If you require any further assistance, feel free to contact me.

Thanks &amp; Regards,

Subathra S

Academics and Operations Support Associate



**Global Head Quarters**  
The Old Court House  
Hughenden Road  
Buckinghamshire, HP13 5DT  
United Kingdom, Tel : +44 20 376 33333

**Regional Office: India**  
10/1, 4th Floor, Lakshmi Narayan Complex  
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Bengaluru - 560052, Karnataka  
India, Tel : +91 80 4645 8899

Official Education Partner



tamilnadu.academics@isdglobal.org | +91 8046458 899 | +91 9606474860

On Mon, Feb 27, 2023 at 3:43 PM Mr. J.Camilton &lt;camilton\_co2@mail.sjctni.edu&gt; wrote:

[Quoted text hidden]

### 2 attachments

SJC-FA-2022-Nitish.xlsx  
10Knitin profile (2).pdf  
54K





Mr. J.Camilton &lt;camilton\_co2@mail.sjctni.edu&gt;

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## Request for FM Revision classes and Special training on CBE based section C questions

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**Learning Support** <info.academics@isdglobal.org.uk>

Fri, Jul 8, 2022 at 11:35 AM

To: "Mr. J.Camilton" &lt;camilton\_co2@mail.sjctni.edu&gt;

Cc: Aaira Fathima &lt;fathima.imraz@isdglobal.org&gt;, Aravind ISDC &lt;aravind.cr@isdglobal.org.uk&gt;, "Dr. F.R.ALEXANDER PRAVIN DURAI" &lt;alexanderpravindurai\_co1@mail.sjctni.edu&gt;, "Ms. Mary Magdalene. A" &lt;marymagdalene\_cr2@mail.sjctni.edu&gt;, Academics Support &lt;academics.support@isdglobal.org.uk&gt;, subathra.s@isdglobal.org.uk

Dear Sir ,

As discussed , please find attached the schedule for FM revision and CBE platform training .

We can start the session from 1 st August as the faculty is busy till then . Our faculty Mr. Madesh K will be handling the session .

Please find attached his profile .

On Thu, Jul 7, 2022 at 9:41 AM Mr. J.Camilton &lt;camilton\_co2@mail.sjctni.edu&gt; wrote:

[Quoted text hidden]

[Quoted text hidden]

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### 2 attachments

**SJT - FM - Madesh.xlsx**  
11K**maadesh - Profile.pdf**  
322K

## Minutes Of Meeting

### Campus To Corporate Mantra – Briefing Session

**Meeting Schedule** : 18<sup>th</sup> August 2022, from 03:00 PM to 03:30 PM

**Attendees:**

**St.Joseph's College** : Mr.Camilton J: Assistant Professor & Coordinator (Department of Commerce Honours)  
: 35 Students

**ISDC Global** : Hadrine H Pereira: Senior Manager - Corporate Relations & Placement  
: Archana Unnikrishnan: Assistant Manager - Corporate Relations & Placement

### **Topics Discussed**

#### **Guidelines for the session**

- **Discipline**
  - Mobile phones on Flight Mode
  - Punctuality (Late commers are not entertained)
  - Attendance is Compulsory for all 3 days
- **Attire (Boys & Girls)**
  - Day 1: Business Formals
  - Day 2: Casual Wear
  - Day 3: Formal Dress for Interview (with blazer, tie, formal shoes)

*Note\*: Anyone not following the above guidelines will be debarred from the session*

- **Student volunteers for: -**
  - Discipline In-charge: 2 Students (Yogeshwaere & Arif)
  - Technical Mentor: 2 Students (Aadhi & Giri)
  - Activity In-charge: 3 Students (Arul, Venita, Hari Hara Sudhan)





Mr. J.Camilton &lt;camilton\_co2@mail.sjctni.edu&gt;

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## Request for Offline FM and FR Classes - SJC Trichy

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**Subathra S** <subathra.s@isdcglobal.org.uk>

Fri, Sep 23, 2022 at 4:38 PM

To: "Mr. J.Camilton" &lt;camilton\_co2@mail.sjctni.edu&gt;

Cc: Aaira Fathima &lt;fathima.imraz@isdcglobal.org&gt;, Aravind ISDC &lt;aravind.cr@isdcglobal.org.uk&gt;, "Dr. F.R.ALEXANDER PRAVIN DURAI" &lt;alexanderpravindurai\_co1@mail.sjctni.edu&gt;, "Mr. G.PRABAKARAN" &lt;prabakaran\_co2@mail.sjctni.edu&gt;, "Ms. Mary Magdalene. A" &lt;marymagdalene\_cr2@mail.sjctni.edu&gt;, Aly Sayyad &lt;hajarathaly.sayyad@isdcglobal.org.uk&gt;, raavi.reddy@isdcglobal.org.uk, Academics Support &lt;academics.support@isdcglobal.org.uk&gt;, Learning Support &lt;info.academics@isdcglobal.org.uk&gt;

Dear Sir,

Greetings from ISDC!

As discussed via call, the classes will start on October 11th, 2022 for FR & FM, I'm sharing the Planned Schedule, Faculty Profile along with this mail. Kindly share with the students.

Please let me know if you have any questions regarding the same.

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**Thanks and Regards,****Subathra S****Associate - Academics & Operations Support**subathra.s@[isdcglobal.org.uk](mailto:subathra.s@isdcglobal.org.uk) |  +919606474860

On Wed, Sep 14, 2022 at 12:43 PM Mr. J.Camilton <camilton\_co2@mail.sjctni.edu> wrote:

[Quoted text hidden]

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### 2 attachments

**SJC-FR&FM-20&21-RAAVI.xlsx**

10K

**RAAVI VENKAT REDDY Profile.pdf**

119K



Mr. J.Camilton &lt;camilton\_co2@mail.sjctni.edu&gt;

## Inviting you for a Three Day Placement Training - SJC Trichy

**Hadrine isdc** <hadrine.pereira@isdcglobal.org.uk>

Tue, Aug 16, 2022 at 6:15 PM

To: "Mr. J.Camilton" &lt;camilton\_co2@mail.sjctni.edu&gt;

Cc: hadrinehperreira@gmail.com, "Dr. F.R.ALEXANDER PRAVIN DURAI" <alexanderpravindurai\_co1@mail.sjctni.edu>, "Ms. Mary Magdalene. A" <marymagdalene\_cr2@mail.sjctni.edu>, "Mr. G.PRABAKARAN" <prabakaran\_co2@mail.sjctni.edu>, Aravind ISDC <aravind.cr@isdcglobal.org.uk>, Archana Unnikrishnan <archana.unnikrishnan@isdcglobal.org.uk>

Dear Mr. Camilton,

Many thanks for your kind invitation. I feel delighted to be there along with my colleague - Ms. Archana. We shall plan to reach by 22 August evening to start the session by 23 August (Tuesday),

Request you to arrange two Guest houses within the campus for us (if possible) from 22 August to 26-August-2022.

Looking forward to meeting you and your blessed students.

**Thanks & Regards****Hadrine H Pereira****Senior Manager - Corporate Relations & Placement****Registered Office: UK**

International Skill Development Corporation Limited  
20-22, Wenlock Road, London, N1 7GU  
United Kingdom

**Regional Office: India**

10/1,4th Floor, Lakshmi Narayan Complex, Palace Road  
Vasanth Nagar, Bengaluru - 560052, Karnataka, India

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International Convention Centre, Sydney, Australia  
5-8 November 2018

[hadrine.pereira@isdcglobal.org.uk](mailto:hadrine.pereira@isdcglobal.org.uk) | +91 80 4645 8888 | 89513 96400

[Quoted text hidden]





Mr. J.Camilton &lt;camilton\_co2@mail.sjctni.edu&gt;

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**Fwd: Request for Placement, Students Data - St. Joseph's College (Trichy)**

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**Mr. J.Camilton** <camilton\_co2@mail.sjctni.edu>

Tue, Nov 8, 2022 at 11:07 PM

To: Aravind ISDC &lt;aravind.cr@isdcglobal.org.uk&gt;

Cc: Archana Unnikrishnan &lt;archana.unnikrishnan@isdcglobal.org.uk&gt;, "Dr. F.R.ALEXANDER PRAVIN DURAI" &lt;alexanderpravindurai\_co1@mail.sjctni.edu&gt;, Hadrine isdc &lt;hadrine.pereira@isdcglobal.org.uk&gt;, shone babu &lt;shone.babu@isdcglobal.org&gt;

Dear Mr.Aravind,

Please find the attached updated file.

Also, please find below the drive link to the resume of all 38 students. (It is a open link and can be accessed by anyone with the link),

[https://drive.google.com/drive/folders/1D4likCyAca2iSdPBbxZLdrDna2Srk\\_AW?usp=share\\_link](https://drive.google.com/drive/folders/1D4likCyAca2iSdPBbxZLdrDna2Srk_AW?usp=share_link)

Regards,  
Mr.Camilton J,  
Assistant Professor & Coordinator,  
Department of Commerce Honours,  
St.Joseph's College(Autonomous), Tiruchirappalli -02.

[Quoted text hidden]



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**St.Joseph's College (Trichy) - Students Data Format.xlsx**  
31K



Mr. J.Camilton &lt;camilton\_co2@mail.sjctni.edu&gt;

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**Fwd: Internship Offer letter From KRG**

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**Hadrine isdc** <hadrine.pereira@isdglobal.org.uk>

Tue, Dec 6, 2022 at 9:37 PM

To: "Mr. J.Camilton" &lt;camilton\_co2@mail.sjctni.edu&gt;

Cc: "Dr. F.R.ALEXANDER PRAVIN DURAI" &lt;alexanderpravindurai\_co1@mail.sjctni.edu&gt;

----- Forwarded message -----

From: **Career KRG** <career@krgconsultants.com>

Date: Tue, 6 Dec 2022, 12:32 pm

Subject: Internship Offer letter From KRG

To: arshakathil1@gmail.com &lt;arshakathil1@gmail.com&gt;

Cc: hadrine.pereira@isdglobal.org.uk &lt;hadrine.pereira@isdglobal.org.uk&gt;

Dear Arshak Athil N.M.,

This is with reference to your application for an **Online Internship Cum Live Project 2022**, we are happy to inform you that you have been selected as a **"Business Analyst Intern"** in our organization.

Your internship period will be for Two months starting from **15<sup>th</sup> Dec 2022**. During the course on this unpaid Internship program and thereafter, you need to agree to keep all the trade and the related information that the company holds strictly confidential.

Please note this letter is just an offer to the Internship and not an appointment. Appointment for services is subject to document verification. Please share a copy of your PAN Card/Aadhaar card and Any college id proof for our records

**Kindly reply with the confirmation of your joining. The offer will be valid for next 48 hours.**

We welcome you to the **"KRG Family"** and look forward to your long and fruitful association for mutual interests.

Vinay Kumar Mali  
7877107287(WhatsApp/Call)

**Team KRG****KRG STRATEGY CONSULTANTS PRIVATE LIMITED**

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E: [career@krgconsultants.com](mailto:career@krgconsultants.com)W: [www.krgconsultants.com](http://www.krgconsultants.com)

P: Mumbai



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**DISCLAIMER:**



4/2/23, 6:09 PM

St.Joseph's College (Autonomous), Trichy-02 Mail - Fwd: Internship Offer letter From KRG

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Mr. J.Camilton &lt;camilton\_co2@mail.sjctni.edu&gt;

## EF Support – Virtual Placement Drive (additional 9 Students)

ISDC Placements &lt;placements@isdcglobal.org&gt;

Thu, Dec 1, 2022 at 10:55 AM

To: jenithanraj22@gmail.com, yogesri2823@gmail.com, ashwinkhaant@gmail.com, monishathangam2002@gmail.com, giriprasanthm@gmail.com, bmsainagul29@gmail.com, hariharasudhanar2003@gmail.com, Sooryahsiva@gmail.com, Nirmals7686@gmail.com

Cc: hadrine.pereira@isdcglobal.org.uk, Aravind ISDC <aravind.cr@isdcglobal.org.uk>, archana.unnikrishnan@isdcglobal.org.uk, camilton\_co2@mail.sjctni.edu

Dear Students,

Please be informed that EF Support has scheduled a virtual placement drive on the 1st of December 2022, details are below:-

### Selection Process/ rounds

Round 1: Telephonic Interview (from 11:00 AM to 02:00 PM)

Round 2: Face-to-Face Interview at their office for Selected (the date will be shared later)

### Note

- EF Support JD Attached
- Please be available on call from 11:00 AM to 02:00 PM on 1st December 2022

## Office of Career Guidance & Placement



### Registered Office: UK

International Skill Development Corporation Limited  
20-22, Wenlock Road, London, N1 7GU  
United Kingdom

### Regional Office: India

10/1, 4th Floor, Lakshmi Narayan Complex, Palace Road  
Vasanth Nagar, Bengaluru - 560052, Karnataka, India



### Official Skills Partner for

### WORLD CONGRESS OF ACCOUNTANTS 2018

GLOBAL CHALLENGES | GLOBAL LEADERS

International Convention Centre, Sydney, Australia  
5-8 November 2018



[placements@isdcglobal.org](mailto:placements@isdcglobal.org)



+918046458888



+918046458899

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### 2 attachments



EF Support - Student Application List 2 (1).xlsx

11K



EF Support - JD.pdf

418K





Mr. J.Camilton &lt;camilton\_co2@mail.sjctni.edu&gt;

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## Request for FM Revision classes and Special training on CBE based section C questions

---

**Learning Support** <info.academics@isdglobal.org.uk>

Thu, Jul 14, 2022 at 4:29 PM

To: "Mr. J.Camilton" &lt;camilton\_co2@mail.sjctni.edu&gt;

Cc: Aaira Fathima <fathima.imraz@isdglobal.org>, Aravind ISDC <aravind.cr@isdglobal.org.uk>, "Dr. F.R.ALEXANDER PRAVIN DURAI" <alexanderpravindurai\_co1@mail.sjctni.edu>, "Ms. Mary Magdalene. A" <marymagdalene\_cr2@mail.sjctni.edu>, Subathra S <subathra.s@isdglobal.org.uk>, Ambica Alturi <alturi.ambica@isdglobal.org.uk>, Academics Support <academics.support@isdglobal.org.uk>, Chinmay Shah <Chinmay.shah@isdglobal.org.uk>

Dear Sir ,

As discussed, we can have the session between 25-29 th July ( online) Please find attached the schedule .

I have attached faculty profile for your reference .

[Quoted text hidden]

---

### 2 attachments

**Faculty Profile Chinmay Shah.pdf**  
506K**SJT - FMrevision - Chinmay.xlsx**  
11K



Mr. J.Camilton &lt;camilton\_co2@mail.sjctni.edu&gt;

## Inviting you for a Three Day Placement Training - SJC Trichy

**Archana Unnikrishnan** <archana.unnikrishnan@isdcglobal.org.uk>

Wed, Aug 31, 2022 at 5:45 PM

To: "Mr. J.Camilton" &lt;camilton\_co2@mail.sjctni.edu&gt;

Cc: alexanderpravindurai\_co1@mail.sjctni.edu, marymagdalene\_cr2@mail.sjctni.edu, Shone Babu &lt;shone.babu@isdcglobal.org&gt;, Hadrine isdc &lt;hadrine.pereira@isdcglobal.org.uk&gt;, aravind.cr@isdcglobal.org.uk

Dear Camilton,

We appreciate your collaborative effort and thank you for your support in making the "Campus to Corporate Mantra" - A Three-Day Placement Workshop from August 23rd to August 25th, 2022 a successful event with 100% attendance.

Special thanks to Dr. F.R.Alexander Pravin Durai and Ms. Mary Magdalene A.

We are incredibly proud of your student's enthusiasm during the 3-Day Placement Workshop and are pleased to present them with a certificate of participation for this session. (Certificate link shared below)

Certificate of Participation: [https://drive.google.com/drive/folders/1QCIEjUEgZfAB6uDUAVlwh\\_WZ\\_XHFkeoq](https://drive.google.com/drive/folders/1QCIEjUEgZfAB6uDUAVlwh_WZ_XHFkeoq)

We look forward to conducting more such sessions.

**Thank You & Regards,**

**Archana Unnikrishnan**

**Assistant Manager - Corporate Relations & Placements**

**Registered Office: UK**

International Skill Development Corporation Limited  
20-22, Wenlock Road, London, N1 7GU  
United Kingdom

**Regional Office: India**

10/1,4th Floor, Lakshmi Narayan Complex, Palace Road  
Vasanth Nagar, Bengaluru - 560052, Karnataka, India

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ACCOUNTANTS 2018**

GLOBAL CHALLENGES | GLOBAL LEADERS

International Convention Centre, Sydney, Australia  
5-8 November 2018

[archana.unnikrishnan@isdcglobal.org.uk](mailto:archana.unnikrishnan@isdcglobal.org.uk) |

+919036008963

[Quoted text hidden]



## **St. Joseph's College (Autonomous)**

**Accredited A++ Grade (4<sup>th</sup> cycle) by NAAC**

**Special Heritage status awarded by UGC**

**College with Potential for Excellence by UGC**

**DBT-STAR & DST-FIST Sponsored College**

**Tiruchirappalli – 620002**

### **Department Of Business Administration**

#### **A training program on stock investment avenues**




A training program on “stock investment avenues” organized by the department of Business Administration for the II-year students of BBA with a purpose of impairing practical knowledge on get the practical knowledge on stock investment options. The resource person for the event was Naga Arjunan Dealer, Anandrathi investment services, Trichy

The event has started at 2.00 PM with a devotional song followed by the welcome address given by Mr. Kalvin of II BBA

Our resource person Mr. Naga Arjunan K gave an insight about the need for investment rather than savings, where to invest, the world of stock market, IPO, how shareholder get out the deal, what is mutual fund and How does it work.

As business students, the program gave them a practical idea about the investment avenues namely fixed income, commodities, equity, real-estate etc.

The following feedbacks were received from the students:

-  Got practical knowledge on stock investment
-  Very interactive session
-  We got some valuable information on mutual funds



✚ We have planned to invest on equities very soon

“We are very thankful to our department for organizing such an informative workshop for us. It is really helpful for us to develop our practical knowledge on stock investment”. The meeting has come to end at 4.30 pm with the vote of thanks proposed by Mr. Riyas of II BBA followed by national anthem.

### **Photographs**

#### **Inaugural prayer**



## Welcoming the gathering



## Resource person talk



## Interaction





## Students listening to the session





# ATTENDANCE II BBA- A

S. No	D. No	Signature
1.	21UBU501	J. Hudson Rhina
2.	21UBU502	
3.	21UBU503	Swialah P.
4.	21UBU504	(Amil. M)
5.	21UBU505	Pom. M S
6.	21UBU506	Santana
7.	21UBU507	A. Kamm
8.	21UBU508	Ruthish
9.	21UBU509	Rafel.
10.	21UBU510	M. Riff
11.	21UBU511	D. P.
12.	21UBU512	Am
13.	21UBU513	Raymond
14.	21UBU514	M. General Mar
15.	21UBU515	Demister
16.	21UBU516	L. J. J. J.
17.	21UBU517	R. J.
18.	21UBU518	R. J.
19.	21UBU519	Abiloshij
20.	21UBU521	Meliparo
21.	21UBU522	M. J. J. J.
22.	21UBU523	Alham
23.	21UBU524	Rakentup
24.	21UBU525	
25.	21UBU526	Boat
26.	21UBU527	Deepan
27.	21UBU528	Sathish
28.	21UBU529	
29.	21UBU530	Antophino
30.	21UBU531	Nichus
31.	21UBU532	

32.	21UBU533	M. Al-shaikh
33.	21UBU534	Pichansor
34.	21UBU535	Kristin
35.	21UBU536	
36.	21UBU537	P. yagunsky
37.	21UBU538	Harcobony
38.	21UBU539	Alosyev
39.	21UBU540	Q. Thomas
40.	21UBU541	
41.	21UBU542	mad P
42.	21UBU543	
43.	21UBU544	G. Ruban Jelide
44.	21UBU545	Z. Portlieu
45.	21UBU546	B. yagunsky
46.	21UBU547	M. Sakhi w.
47.	21UBU548	A. Longue
48.	21UBU549	Q. Ranzini
49.	21UBU550	P. Livingston
50.	21UBU551	L. Haezish
51.	21UBU552	A. Kozurdin alag
52.	21UBU553	R. Sornaravan
53.	21UBU554	
54.	21UBU555	Dhury
55.	21UBU557	T. Anantkari
56.	21UBU558	V. Sandhu Aitken
57.	21UBU559	N. Halim
58.	21UBU560	A. G. G.
59.	21UBU561	A. G. G.
60.	21UBU564	S. Fehi Song
61.	21UBU565	V. G.
62.	21UBU566	Christobor
63.	21UBU567	
64.	21UBU568	Arigan
65.	21UBU569	
66.	21UBU570	Mowiki
67.	21UBU571	
68.	21UBU572	V. G. G.



## II BBA "B"

S.no	D.no	Signature
1.	21UBU601	D. Dhejy
2.	21UBU602	
3.	21UBU603	A. Choral /
4.	21UBU604	Andraguth.
5.	21UBU605	S. Jee
6.	21UBU606	P. Valarip.
7.	21UBU607	Sahya Jaison
8.	21UBU608	P. D. Patel
9.	21UBU609	Jey. A
10.	21UBU610	A. M. Jey
11.	21UBU611	S. Arund
12.	21UBU612	Kanabalan
13.	21UBU612	
14.	21UBU613	S. George Wilson.
15.	21UBU614	
16.	21UBU615	V. Anishah
17.	21UBU616	S. Amaladas.
18.	21UBU617	'Nella
19.	21UBU618	S. Jey
20.	21UBU619	Arto Jey
21.	21UBU621	C. Praveen
22.	21UBU622	P. D. S.
23.	21UBU623	H. Vithal.
24.	21UBU624	Surya Prasath
25.	21UBU625	
26.	21UBU626	N. Jey
27.	21UBU627	P. D. S.
28.	21UBU629	S. Jey
29.	21UBU630	V. Chandra
30.	21UBU631	M. J. R. T.
31.	21UBU632	A. R. J.





**DEPARTMENT OF BUSINESS ADMINISTRATION**  
**ST. JOSEPH'S COLLEGE (AUTONOMOUS), TIRUCHIRAPALLI**  
***REPORT ON THE ONE DAY WORKSHOP ON BIZLAB***

**Date: 26.09.2022**

**Time: 11.00 AM – 4.30 PM**

**Venue : ERHART Computer Center, St. Joseph's College, Trichy**

**DEPARTMENT OF BUSINESS ADMINISTRATION**  
**ST. JOSEPH'S COLLEGE (AUTONOMOUS)**  
SPECIAL HERITAGE STATUS AWARDED BY UGC  
ACCREDITED AT A++ GRADE (4th CYCLE) BY NAAC COLLEGE WITH  
POTENTIAL FOR EXCELLENCE BY UGC  
DBT-STAR & DST-FIST SPONSORED COLLEGE

**DEPARTMENT OF BUSINESS ADMINISTRATION IN COLLABORATION  
WITH FIRE BIRD INSTITUTE OF RESEARCH IN MANAGEMENT,  
COIMBATORE**  
And  
All India Management Association (AIMA),  
Organises a programme on  
*BizLab*

**FELICITATION**

Venue: Erhart computer centre	<b><i>Dr. P. Rajendran</i></b> DEPUTY PRINCIPAL	Date & Time 26.09.2022 & 11.00 am
-------------------------------------	--	---

*All are invited*  
**HEAD OF THE DEPARTMENT**  
***Ms.C.F.Octavia Antony Sesammal***

<b>ASSOCIATION VICE PRESIDENT</b> <b><i>Dr. S. Clemence Jenifer</i></b>	<b>ASSOCIATION PRESIDENT</b> <b><i>Ms.C.Annie Jane</i></b>
--	---

The Department of business Administration in Association with Firebird Institute of Research in Management, Coimbatore and All Indian Management Association (AIMA) organize a one day workshop on BIZLAB on 26<sup>th</sup> sep 2022. The program was felicitated by **Dr. P. Rajendran**, Deputy Principal, St. Joseph's College (Autonomous) Trichy.

**Prof. Rajesh** from Firebird Institute of Management, Coimbatore, Tamil Nadu, gave an orientation about AIMA & BIZLAB, highlighted that BIZLAB is a first of its kind virtual lab for management students. Just like the laboratories for other science subject, using BIZLAB software, students may “experiment” with various management strategies and tactics on the given scenario. Specifically designed, keeping in mind the learning habit of the new generation students He mentioned that, BIZLAB provides an unparalleled learning experience. He also instructed about the stages in the simulation like Product Design, Marketing Mix, Operation, Manpower, Finance, Special Projects, Proforma and Simulation. Our students were made to participate in a model simulation conducted by them. Five teams were selected to take part in the final round which is going to be held at Firebird Institute of Management, Coimbatore, Tamil Nadu in coming month.

The second session started after the break at 2:30 PM. **Prof. Dr. Immanuel** from Firebird Institute of Management, Coimbatore, Tamil Nadu gave an orientation about the Firebird institute of management, Coimbatore, Tamil Nadu. He highlighted the 5 principles of successful leaders namely Disruptive Thinking, Applied Knowledge, Personal Discipline & Accountability, Empathy and winning Attitude.

The session came to the end with the valediction address given by the head of the department.

  
**Prof. C. F. OCTAVIA ANTONY SESSAMMAL, MBA, MPhil, NET.**  
**Head & Assistant Professor**  
**Department of Business Administration**  
**St. Joseph's College (Autonomous)**  
**Tiruchirappalli - 620 002.**

**DEPARTMENT OF BUSINESS ADMINISTRATION**  
**ST.JOSEPH'S COLLEGE (AUTONOMOUS), TIRUCHIRAPALLI**  
***REPORT ON THE ONE DAY WORKSHOP ON “FIREBIRD INSTITUTE OF***  
***MANAGEMENT & AIMA Organizes a program on BIZLAB “***

*Head of the Department honoring the dignitaries*





*Students attending the session*





*Resource Person's addressing the students*



*Group Photo with student secretaries, faculties of the department and the resource person*



**DEPARTMENT OF BBA**  
**St. Joseph's College, Trichy**

**Date:** 26.09.2022

**Programme:**

**Venue:** Erhart Computer Center

**ATTENDANCE**

**III – BBA 'A'**

S. No	D. No	signature
1	20UBU501	M. S. Pragna Sanyal
2	20UBU502	T. R. Joe Richard
3	20UBU503	Amitha
4	20UBU504	P. S. Sushil
5	20UBU505	T. Ravikiran
6	20UBU506	S. Anurag Sanyal
7	20UBU507	Shreyas
8	20UBU508	E. Y. Sanyal
9	20UBU509	R. M. Sanyal
10	20UBU510	A. Balf
11	20UBU511	S. Sanyal
12	20UBU512	S. M. Sanyal
13	20UBU513	B. Sanyal
14	20UBU515	R. K. Sanyal
15	20UBU516	A. Sanyal
16	20UBU517	A. Sanyal
17	20UBU518	B. Sanyal
18	20UBU520	S. Sanyal
19	20UBU521	S. Robinson
20	20UBU522	S. Sanyal
21	20UBU523	S. Sanyal
22	20UBU524	S. Sanyal
23	20UBU525	S. Sanyal
24	20UBU526	P. Fabian Patrick
25	20UBU527	S. Sanyal
26	20UBU528	S. Sanyal
27	20UBU529	S. Sanyal
28	20UBU530	T. Melwyn Sanyal



29	20UBU531	harishwaran - R
30	20UBU532	G. Joe Cep
31	20UBU533	gpr.
32	20UBU534	S. Anbo John
33	20UBU535	S. Navar.
34	20UBU536	A. Ebith
35	20UBU537	A. Jit
36	20UBU538	F. chit Raj
37	20UBU539	P. Sivaraman
38	20UBU540	A. L. K. R. R.
39	20UBU541	R. Dhyaprakash
40	20UBU542	Z. S. John Francis
41	20UBU544	A. ANDREW Immanuel
42	20UBU545	J. Martin Ebenezer
43	20UBU546	R. M. L.
44	20UBU547	S. Mugesh
45	20UBU549	A. D. Anth R.
46	20UBU550	S. R.
47	20UBU551	A. Baranidharan
48	20UBU552	S. Logeshwar
49	20UBU553	
50	20UBU554	R. Ank. C.
51	20UBU555	S. R.
52	20UBU556	
53	20UBU557	N. R.
54	20UBU558	W. N.
55	20UBU560	D. dan Kirin.
55	20UBU561	M. K. K.
57	20UBU562	S. Edvard Jeno
58	20UBU563	U. K.
59	20UBU564	K. K.
60	20UBU565	P. Sam
61	20UBU567	D. Joshua.
62	20UBU568	M. R.
63	20UBU569	J. Han K.



M

DEPARTMENT OF BBA  
ST. JOSEPH'S COLLEGE, TRICHY

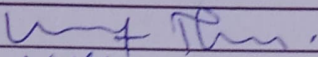
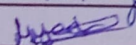

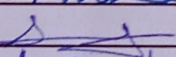
Date: 26.09.2022

Programme:

Venue: Erhart Computer Center

ATTENDANCE

III BBA-B

S. No	D. No	signature
1	20UBU601	
2	20UBU602	V. Vijay
3	20UBU604	V. Jeyaraj
4	20UBU605	Chiranjeev
5	20UBU606	A. Felix geo
6	20UBU607	
7	20UBU608	Arunachal
8	20UBU609	Adi
9	20UBU610	Adarsh
10	20UBU611	X. P. S.
11	20UBU612	
12	20UBU614	V. Raj
13	20UBU615	Pranav Kumar
14	20UBU616	R. Vimal Prakash
15	20UBU617	N. V. S.
16	20UBU618	
17	20UBU619	A. Prakash
18	20UBU622	Jayid
19	20UBU623	J. V. S.
20	20UBU624	D. Engine deentha Raj
21	20UBU625	S. Suban vij.
22	20UBU626	J. Ashok
23	20UBU627	Rendits
24	20UBU628	David
25	20UBU629	R. S.
26	20UBU631	S. Srinivasan
27	20UBU633	Quiza
28	20UBU634	S. Ravi
29	20UBU636	S. M. S.
30	20UBU638	X. S.
31	20UBU639	Agarwal, B. S. A
32	20UBU641	R. Ramesh
33	20UBU642	S. Vignesh



34	20UBU643	A. Srid
35	20UBU645	J. Dhenan
36	20UBU647	Rajy
37	20UBU648	Arunkia hyd
38	20UBU649	Marcell
39	20UBU650	S. Sainth
40	20UBU652	S. Sainth
41	20UBU653	T. Sainth
42	20UBU654	S. Sainth
43	20UBU655	S. Sainth
44	20UBU657	S. Sainth
45	20UBU658	S. Sainth
46	20UBU659	S. Sainth
47	20UBU660	T. Sainth
48	20UBU661	M. Sainth
49	20UBU662	V. Sainth
50	20UBU664	M. Sainth
51	20UBU665	L. Sainth
52	20UBU666	B. Sainth
53	20UBU667	H. Sainth
54	20UBU668	E. Sainth
55	20UBU669	S. Sainth
56	20UBU672	B. Sainth
57	20UBU673	S. Sainth
58	20UBU674	S. Sainth
59	20UBU675	T. Sainth
60	20UBU676	A. Sainth

A

**DEPARTMENT OF BBA**  
**ST. JOSEPH'S COLLEGE, TRICHY**

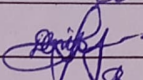
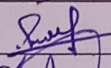
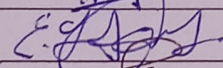
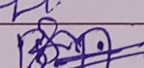
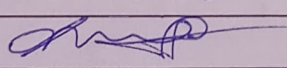
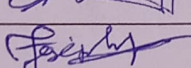
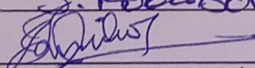
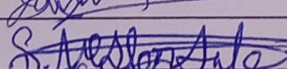
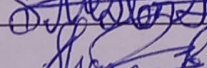
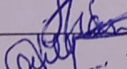
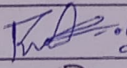
**Date:** 26.09.2022

**Programme:**

**Venue:** Erhart Computer Center

**ATTENDANCE**

**III – BBA 'A'**

S. No	D. No	signature
1	20UBU501	m. ghyr sei
2	20UBU502	T.R. Joe Richard
3	20UBU503	
4	20UBU504	G. Gushly
5	20UBU505	T. Raghun.
6	20UBU506	J. George steph
7	20UBU507	
8	20UBU508	
9	20UBU509	R. M. Rhyr
10	20UBU510	S. Ragh
11	20UBU511	J. Jaiel
12	20UBU512	S. m. h.
13	20UBU513	
14	20UBU515	R. v. k.
15	20UBU516	
16	20UBU517	
17	20UBU518	Ben
18	20UBU520	fy
19	20UBU521	S. Robinson.
20	20UBU522	
21	20UBU523	
22	20UBU524	
23	20UBU525	
24	20UBU526	P. S. Raghav
25	20UBU527	
26	20UBU528	S. Ragh
27	20UBU529	Arokiyaraj.
28	20UBU530	J. Melwyn Blomer



29	20UBU531	harishwaran Pa
30	20UBU532	B. Joe Deep
31	20UBU533	Rm
32	20UBU534	B. Anto Jothid
33	20UBU535	S. Navan
34	20UBU536	Bhinegoer
35	20UBU537	A. Jit
36	20UBU538	Charet ray
37	20UBU539	P. Sivarathay
38	20UBU540	A. Lakshmi
39	20UBU541	P. Deepprakash
40	20UBU542	Jhon P. R. S.
41	20UBU544	A. Andrew Immanuel
42	20UBU545	J. Marthi Ebenezer
43	20UBU546	Rm
44	20UBU547	S. Magesh
45	20UBU549	A. Deth Reth
46	20UBU550	Gino
47	20UBU551	A. Bala Vidhyan
48	20UBU552	S. Lageshan
49	20UBU553	
50	20UBU554	R. Anil K. L.
51	20UBU555	Ruban Roshan
52	20UBU556	
53	20UBU557	N. Arul
54	20UBU558	M. N
55	20UBU560	D. Anil K. L.
55	20UBU561	M. Kunga
57	20UBU562	S. Eduprat Peru
58	20UBU563	M. Kaly
59	20UBU564	K. Karthik
60	20UBU565	P. Sam
61	20UBU567	D. Joshua
62	20UBU568	R. R. F.
63	20UBU569	S. Hari Vignesh



**DEPARTMENT OF BBA**  
St. Joseph's College, Trichy


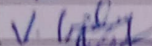
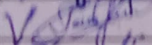
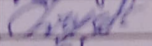
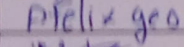
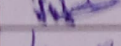
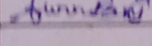

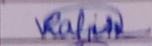
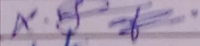
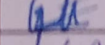
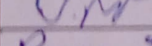
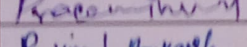
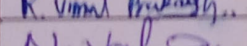
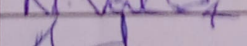
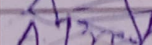
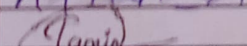

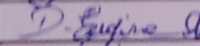
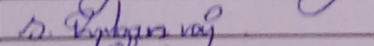
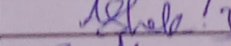
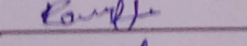

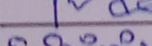
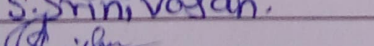
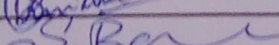
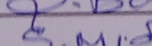
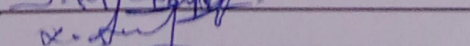
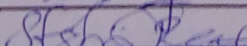
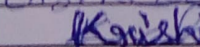
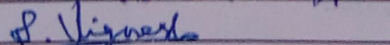

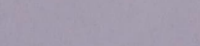
Date: 26.09.2022

Programme:

Venue: Erhart Computer Center

**ATTENDANCE**

**III BBA-B**

S. No	D. No	signature
1	20UBU601	
2	20UBU602	
3	20UBU604	
4	20UBU605	
5	20UBU606	
6	20UBU607	
7	20UBU608	
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30	20UBU638	
31	20UBU639	
32	20UBU641	
33	20UBU642	



34	20UBU643	D. L.
35	20UBU645	J. Tharais...
36	20UBU647	R. S.
37	20UBU648	P. S. S.
38	20UBU649	M. S.
39	20UBU650	R. S.
40	20UBU652	S. S.
41	20UBU653	S. S.
42	20UBU654	T. S. S.
43	20UBU655	S. S.
44	20UBU657	S. S.
45	20UBU658	S. S.
46	20UBU659	S. S.
47	20UBU660	J. S. S.
48	20UBU661	G. S.
49	20UBU662	V. S. S.
50	20UBU664	N. S.
51	20UBU665	P. S.
52	20UBU666	B. S.
53	20UBU667	G. S.
54	20UBU668	S. S.
55	20UBU669	S. S.
56	20UBU672	T. S. S.
57	20UBU673	S. S.
58	20UBU674	S. S.
59	20UBU675	S. S.
60	20UBU676	V. S.





# St. JOSEPH'S COLLEGE (Autonomous)

Accredited at A++ Grade (Cycle IV) by NAAC | Special heritage status awarded by UGC  
College with potential for Excellence by UGC | DBT-STAR & DST-FIST Sponsored College

TIRUCHIRAPPALLI - 620 002, TAMIL NADU, INDIA.

☎ 0431 - 4226379 | ☎ 94431 92352

✉ ravindran.da@gmail.com, ravindran\_cs1@mail.sjctni.edu

**Dr. D. Ravindran**  
Vice Principal

21<sup>st</sup>, January 2023

To

Mr. Naveen,  
Senior Manager- Branch  
India Post Payments Bank,  
Tiruchirappalli-Branch (0502)

Respected Sir,

Subject: List of students for Internship

I recommend the following students of the Department of Business Administration of our Institution for the Internship programme offered by your Department. Herewith, I enclose the list of students. Kindly acknowledge the same and send us the confirmation letter of Internship.

Thanking you,

Yours sincerely,

Encl:

1. Students' Name List
2. Copy of Students' Id\_Cards
3. Copy of Students' Aadhaar cards

**Dr. D. RAVINDRAN**  
Vice Principal (Academic)  
Associate Professor in Computer Science  
St. Joseph's College (Autonomous)  
Tiruchirappalli-620 002.





kewin genuwin &lt;kewin.genuwin@gmail.com&gt;

---

**Subject- Invitation for Internship in "India Post Payments Bank" - Tiruchirappalli Branch**

---

naveen.r@ippbonline.in <naveen.r@ippbonline.in>  
To: kewin.genuwin@gmail.com  
Cc: IPPB TIRUCHIRAPPALLI <ippb0502@ippbonline.in>

Fri, Jan 13, 2023 at 4:34 PM

Respected Sir/Ma'am,

**India Post Payments Bank (IPPB)** was setup by **Department of Post** under **Ministry of Communication** with 100% government equity & is running its business operations across the country through 650 dedicated branches & 1.40 lakh access points with strength of 1.60 lakh GDS/Postmen/Postal Assistants to serve its customers a wide variety of products and services. IPPB branches are situated mostly at Head Office locations of DOP and all other access points of the district are tagged to that IPPB branches.

To take forward the GOI's vision of complete "**Financial Inclusion**", "**Digital India**" and reach out to the remotest and rural part of country, we are continuously focusing on increasing our bouquet of products and services and aimed to extend our services till last mile across the country through our wise distribution network & unique feature of "**DOORSTEP BANKING**" & "Citizen Centric Services".

In a journey to complete financial inclusion & to educate the youth to the general banking & payments banking services and extending the knowledge of various banking terminologies/fintech, we are happy to offer internship to the students who are pursuing their career in banking / commerce / finance / fintech fields and keen to get knowledge of modern banking domain so that they can utilize this experience in near future not only limited to career building but also enhance their skill sets.

We request you to recommend the students (excluding distance learning programme students) of your esteemed institution to direct their applications to our branch.

**Details of Internship Programme:**

All students (excluding distance learning programme) from reputed Universities/Deemed Universities/Institutions recognised by University Grants Commission (UGC) and /or approved by All India Council for Technical Education (AICTE) shall be eligible to apply for undertaking internship at IPPB.

Stipend: The students will not be paid any stipend/financial benefits. Students will have to make their own arrangements for boarding/lodging, transportation, stationery etc.

Procedure for Application: Interested applicants may apply for internship in IPPB at least 7 working days in advance to concerned Branch

Period of Internship: The period of internship shall not exceed 3 months.

### **Requirements**

- A common letter from the college shall be provided recommending the identified students to join Internship Programme of IPPB.
- Copy of College ID Card of applicants to be submitted.
- Copy of Aadhaar Card of applicants to be submitted

We look forward to receive a confirmation from your end to enroll students of your esteemed institution as Interns of India Post Payments Bank.

Thanks & Regards

Naveen. R

Senior Manager – Branch

India Post Payments Bank

Tiruchirappalli Branch (0502)

9944667493 / 8220111883

0431-2461222

  
Prof. C. F. OCTOVIA ANTONY SESSAMMAL, MBA, M.Phil., Ph.D.  
Head & Assistant Professor  
Department of Business Administration  
St. Joseph's College (Autonomous)  
Tiruchirappalli - 620 002.





**Naveen. R**

Senior Manager

Mobile: +91 9944667493  
Email: naveen.r@ippbonline.in  
Website: www.ippbonline.com

India Post Payments Bank Limited,  
Tiruchirappalli Branch  
Tiruchirappalli Head Post Office  
Bharathiyar Salai, Tiruchirappalli - 620001

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*Octovia Antony Sessammal*

Prof. C. F. OCTOVIA ANTONY SESSAMMAL, MBA, M.Phil, NET.

Head & Assistant Professor

Department of Business Administration

St. Joseph's College (Autonomous)

Tiruchirappalli - 620 002.



To

21/01/23

Mr. Naveen,

Senior Manager- Branch

India Post Payments Bank,

Tiruchirappalli-Branch (0502)

Respected Sir,

Subject: List of students for Internship

We recommend the following students of our Esteemed Institution to Join the Internship programme offered by your department. Herewith enclosed the list of students .Kindly acknowledge the same and send us the confirmation letter of Internship.

Thanking you,

Yours,

*Octavia Antony Sessammal*

Encl:

21/01/2023

Students Name List

Copy of Students Id Card

Copy of Students Aadhaar card

*Octavia Antony Sessammal*

ref. C. F. OCTAVIA ANTONY SESSAMMAL, MBA, M.Phil, NET.  
Head & Assistant Professor  
Department of Business Administration  
St. Joseph's College (Autonomous)  
Tiruchirappalli - 620 002.

## Students List

Sl.No.	Department No.	Name
1.	21UBU517	V.Richard
2.	21UBU530	M.AnttoPhino
3.	21UBU534	V.Dickans
4	21UBU561	A.GokulNath
5	21UBU564	S.Felix Sony
6	21UBU566	I.ChristopherRaj
7	21UBU604	R.S.Indrajith
8	21UBU618	M.Jainudeen
9	21UCO580	R.Santhosh
10	21UBU643	S.Joan Pisher

*Octavia Anty Sessan*

PROF. C. F. OCTAVIA ANTONY SESSAN, M.A., M.F.A.,  
Head & Assistant Professor  
Department of Business Administration  
St. Joseph's College (Autonomous)  
Tiruchirappalli - 620 002.



Pondicherry University (Central University)

&

The Society of St. Joseph's College

Tiruchirappalli - 620 002

## PU-SJC MBA Twinning Programme



Dr. M. Antony Jesuraja,  
M.Com., M.Phil., Ph.D.  
Coordinator

Rev. Fr. Berchmans, SJ,  
M.Com., M.Phil., NET, SET.


Asst. Coordinator

Date: 28<sup>th</sup> March 2023

### Certificate of Appreciation

This is to inform that **Dr.Dennis Edward Fernando**, Assistant Professor of Commerce Department, St. Joseph's College (Autonomous), Tiruchirappalli was a guest faculty (Resource Person) of Pondicherry University St. Joseph's College MBA Twinning Programme for the year 2022-2023.

We thank and appreciate **Dr. Dennis Edward Fernando**, for his enriching and informative lectures on **Business Environment and Law**.

  
Dr.M.Antony Jesuraja  
Coordinator  
MBA Twinning Programme  
St.Joseph's College (Autonomous)  
Trichy-2

College Seal







Pondicherry University (Central University)

&

The Society of St. Joseph's College

Tiruchirappalli - 620 002

## PU-SJC MBA Twinning Programme



Dr. M. Antony Jesuraja,  
M.Com., M.Phil., Ph.D.  
Coordinator


Rev. Fr. Berchmans, SJ,  
M.Com., M.Phil., NET, SET.  
Asst. Coordinator

Date: 28<sup>th</sup> March 2023

### Certificate of Appreciation

This is to inform that **Dr.Dennis Edward Fernando**, Assistant Professor of Commerce Department, St. Joseph's College (Autonomous), Tiruchirappalli was a guest faculty (Resource Person) of Pondicherry University St. Joseph's College MBA Twinning Programme for the year 2022-2023.

We thank and appreciate **Dr. Dennis Edward Fernando**, for his enriching and informative lectures on **Retail Marketing**.

  
Dr.M.Antony Jesuraja  
Coordinator  
MBA Twinning Programme  
St.Joseph's College (Autonomous)  
Trichy

College Seal





Pondicherry University (Central University)

&

The Society of St. Joseph's College

Tiruchirappalli - 620 002

## PU-SJC MBA Twinning Programme



Dr. M. Antony Jesuraja,  
M.Com., M.Phil., Ph.D.  
Coordinator


Rev. Fr. Berchmans, SJ,  
M.Com., M.Phil., NET, SET.  
Asst. Coordinator

Date: 28<sup>th</sup> March 2023

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This is to inform that **Dr.Dennis Edward Fernando**, Assistant Professor of Commerce Department, St. Joseph's College (Autonomous), Tiruchirappalli was a guest faculty (Resource Person) of Pondicherry University St. Joseph's College MBA Twinning Programme for the year 2022-2023.

We thank and appreciate **Dr. Dennis Edward Fernando**, for his enriching and informative lectures on **Marketing Management**.

  
Dr.M.Antony Jesuraja  
Coordinator  
MBA Twinning Programme  
St.Joseph's College (Autonomous)  
Trichy

College Seal






DEF\_Collab\_22-23

**PG & Research Department of English**  
**St. Joseph's College (Autonomous)**  
Tiruchirappalli, Tamil Nadu, India

**CERTIFICATE OF  
APPRECIATION**

awarded to  
**Dr Dennis Edward Fernando**  
Assistant Professor  
Department of Commerce (Shift I)  
for handling 20 hours in the Bridge Course  
for the first-year undergraduate students of Shift I  
from August to October 2022.

  
**Dr. V. L. Jayapaul**  
Head of the Department &  
Coordinator, Bridge Course

  
**Rev. Dr. S. Paul Pragash SJ**  
Coordinator  
Bridge Course Advisory Committee

  
**Rev. Dr. M. Arockiasamy Xavier SJ**  
Principal  
St. Joseph's College





# ST. JOSEPH'S INSTITUTE OF TALLY EDUCATION (J I T E) ST. JOSEPH'S COLLEGE (AUTONOMOUS)

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College with Potential for Excellence by UGC DBT-STAR & DST-FIST sponsored College

**TIRUCHIRAPPALLI - 620 002.**

Cell : 73730 20866 E-mail : jitesjctry@gmail.com Website : www.sjctni.edu

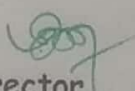
**Dr. G. John**  
Centre Head

**Rev. Dr. Arockiasamy Xavier SJ**  
Principal & Director

## Certificate of Appreciation

This is to acknowledge the services rendered as a Resource Person by  
Dr. G. John, Associate Professor in Commerce, St. Joseph's College, Trichy-  
2, for the Certificate Course in Tally Essentials during the year 2022-2023.

St. Joseph's Institute of Tally Education (JITE) appreciates his expertise  
and contribution in imparting computerized accounting skills to the student  
community.

  
Director  
PRINCIPAL  
ST. JOSEPH'S COLLEGE  
(AUTONOMOUS)  
TIRUCHIRAPPALLI-620 002



# ST. JOSEPH'S INSTITUTE OF TALLY EDUCATION (J I T E)

## ST. JOSEPH'S COLLEGE (AUTONOMOUS)

Accredited at A++ Grade (4<sup>th</sup> Cycle) by NAAC Special Heritage Status awarded by UGC

College with Potential for Excellence by UGC DBT-STAR & DST-FIST sponsored College

**TIRUCHIRAPPALLI - 620 002.**

Cell : 73730 20866 E-mail : jitesjctry@gmail.com Website : www.sjctni.edu

**Dr. G. John**  
Centre Head

**Rev. Dr. Arockiasamy Xavier SJ**  
Principal & Director

### Certificate of Appreciation

This is to acknowledge the services rendered as a Resource Person by Dr.J.Vinoth Kumar, Assistant Professor in Commerce, St. Joseph's College, Trichy-2, for the Certificate Course in Tally Essentials during the year 2022-2023.

St.Joseph's Institute of Tally Education (JITE) appreciates his expertise and contribution in imparting computerized accounting skills to the student community.

**Director**

**PRINCIPAL**

**ST. JOSEPH'S COLLEGE  
(AUTONOMOUS)**

**TIRUCHIRAPPALLI-620 002**



**ST. JOSEPH'S INSTITUTE OF TALLY EDUCATION (J I T E)**  
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**Rev. Dr. Arockiasamy Xavier SJ**  
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This is to acknowledge the services rendered as a Resource Person by Dr.M.Antony Jesuraja, Assistant Professor in Commerce, St. Joseph's College, Trichy-2, for the Certificate Course in Tally Essentials during the year 2022-2023.

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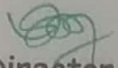
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RESEARCH

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# Solving an integral equation via $\mathcal{C}^*$ -algebra-valued partial $b$ -metrics

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## Abstract

In this paper, we prove some common coupled fixed-point theorems on complete  $\mathcal{C}^*$ -algebra-valued partial  $b$ -metric spaces. Some of the well-known facts in the literature are generalized and expanded by the results shown. An example to illustrate our findings is presented. We also explore some of the applications of our key results.

**Keywords:** Coupled coincidence point; Coupled fixed point;  $\mathcal{C}^*$ -algebra-valued partial  $b$ -metric space;  $w$ -compatible

## 1 Introduction

Fixed point theory, one of the active research areas in mathematics, focuses on maps and abstract spaces, see [1–9], and the references therein. The notion of coupled fixed points was introduced by Guo and Lakshmikantham [10]. In 2006, Bhaskar and Lakshmikantham [4] introduced the concept of a mixed monotonicity property for the first time and investigated some coupled fixed point theorems for such mappings. As a result, many authors obtained many coupled fixed point and coupled coincidence point theorems, see [11–23] and the references therein. In 2014, Ma et al. [24] initially introduced the concept of  $\mathcal{C}^*$ -algebra-valued metric spaces, and proved some fixed point theorems for self-maps with contractive or expansive conditions on such spaces. In 2019, Chandok et al. [25] proved some fixed point theorems on  $C^*$ -algebra-valued partial metric spaces. In 2021, Mlaiki et al. [26] proved some fixed point theorems on  $C^*$ -algebra-valued partial  $b$ -metric spaces. In this paper, we prove some coupled fixed point theorems on  $C^*$ -algebra-valued partial  $b$ -metric spaces.

## 2 Preliminaries

First of all, we recall some basic definitions, notations, and results of  $\mathcal{C}^*$ -algebra that can be found in [27]. Let  $\mathcal{H}$  be a unital algebra. An involution on  $\mathcal{H}$  is a conjugate-linear map  $r \rightarrow r^*$  on  $\mathcal{H}$  such that  $r^{**} = r$  and  $(rs)^* = s^*r^*$  for any  $r, s \in \mathcal{H}$ . The pair  $(\mathcal{H}, \star)$  is called a  $\star$ -algebra. A  $\star$ -algebra  $\mathcal{H}$  together with a complete submultiplicative norm such that  $\|r^*\| = \|r\|$ , is said to be a Banach  $\star$ -algebra. Furthermore, a  $\mathcal{C}^*$ -algebra is a Banach  $\star$ -algebra with  $\|r^*r\| = \|r\|^2$ , for all  $r \in \mathcal{H}$ . An element  $r$  in  $\mathcal{H}$  is self-adjoint, or hermitian, if  $r = r^*$ . Let  $\mathcal{H}_{sa}$  be the set of all self-adjoint elements in  $\mathcal{H}$ , and define the spectrum of  $r \in \mathcal{H}$  to be the set  $\sigma(r) = \{\lambda \in \mathbb{C} : \lambda I - r \text{ is not invertible}\}$ . An element  $r$  of a  $\mathcal{C}^*$ -algebra

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$\mathcal{H}^*$  is positive if  $r$  is hermitian and  $\sigma(r) \subseteq [0, +\infty)$ , where  $\sigma(r)$  is the spectrum of  $r$ . We write  $0_{\mathcal{H}} \leq r$  to show that an element  $r$  is positive, and denote by  $\mathcal{H}_+$  and  $\mathcal{H}_0$  the set of positive elements and the hermitian elements of  $\mathcal{H}$ , respectively, where  $0_{\mathcal{H}}$  is the zero element in  $\mathcal{H}$ . There is a natural partial ordering on  $\mathcal{H}_0$  which is given by  $r \leq s$  if and only if  $0_{\mathcal{H}} \leq s - r$ . It is clear that if  $r, s \in \mathcal{H}_{sa}$  and  $c \in \mathcal{H}$ , then  $r \leq s \Rightarrow c^*rc \leq c^*sc$ , and that if  $r, s \in \mathcal{H}_+$  are invertible, then  $r \leq s \Rightarrow \theta \leq s^{-1} \leq r^{-1}$ . From now on,  $\mathcal{H}'$  will denote the set  $\{r \in \mathcal{H} : rs = sr, \forall s \in \mathcal{H}\}$ .

**Definition 2.1** ([7, 24]) Let  $\Upsilon$  be a nonempty set. Suppose that the mapping  $\rho : \Upsilon \times \Upsilon \rightarrow \mathcal{H}$  is defined, with the following properties:

1.  $0_{\mathcal{H}} \leq \rho(\mathfrak{N}, \varpi)$  for all  $\mathfrak{N}, \varpi \in \Upsilon$  and  $\rho(\mathfrak{N}, \varpi) = 0_{\mathcal{H}}$  if and only if  $\mathfrak{N} = \varpi$ ;
2.  $\rho(\mathfrak{N}, \varpi) = \rho(\varpi, \mathfrak{N})$  for all  $\mathfrak{N}, \varpi \in \Upsilon$ ;
3.  $\rho(\mathfrak{N}, \varpi) \leq \rho(\mathfrak{N}, \gamma) + \rho(\gamma, \varpi)$  for all  $\mathfrak{N}, \varpi, \gamma \in \Upsilon$ .

Then  $\rho$  is said to be a  $\mathcal{C}^*$ -algebra-valued metric on  $\Upsilon$ , and  $(\Upsilon, \mathcal{H}, \rho)$  is said to be a  $\mathcal{C}^*$ -algebra-valued metric space.

The following definition was introduced by Ma and Jiang [28].

**Definition 2.2** Let  $\Upsilon$  be a nonempty set and  $s \in \mathcal{H}$  such that  $s \geq I$ . Suppose that the mapping  $\rho : \Upsilon \times \Upsilon \rightarrow \mathcal{H}$  is defined, with the following properties:

1.  $0_{\mathcal{H}} \leq \rho(\mathfrak{N}, \varpi)$  for all  $\mathfrak{N}, \varpi \in \Upsilon$ ;
2.  $\rho(\mathfrak{N}, \varpi) = 0_{\mathcal{H}}$  if and only if  $\mathfrak{N} = \varpi$ ;
3.  $\rho(\mathfrak{N}, \varpi) = \rho(\varpi, \mathfrak{N})$  for all  $\mathfrak{N}, \varpi \in \Upsilon$ ;
4.  $\rho(\mathfrak{N}, \varpi) \leq s(\rho(\mathfrak{N}, \gamma) + \rho(\gamma, \varpi))$  for all  $\mathfrak{N}, \varpi, \gamma \in \Upsilon$ .

Then  $\rho$  is said to be a  $\mathcal{C}^*$ -algebra-valued  $b$ -metric on  $\Upsilon$ , and  $(\Upsilon, \mathcal{H}, \rho)$  is said to be a  $\mathcal{C}^*$ -algebra-valued  $b$ -metric space.

Now, we recall the definition of a  $C^*$ -algebra-valued partial  $b$ -metric space introduced by Mlaiki et al [26].

**Definition 2.3** Let  $\Upsilon$  be a nonempty set and  $s \in \mathcal{H}$  such that  $s \geq I$ . Suppose that the mapping  $\rho : \Upsilon \times \Upsilon \rightarrow \mathcal{H}$  is defined, with the following properties:

- (A1)  $0_{\mathcal{H}} \leq \rho(\mathfrak{N}, \varpi)$  for all  $\mathfrak{N}, \varpi \in \Upsilon$  and  $\rho(\mathfrak{N}, \mathfrak{N}) = \rho(\varpi, \varpi) = \rho(\mathfrak{N}, \varpi)$  if and only if  $\mathfrak{N} = \varpi$ ;
- (A2)  $\rho(\mathfrak{N}, \mathfrak{N}) \leq \rho(\mathfrak{N}, \varpi)$ ;
- (A3)  $\rho(\mathfrak{N}, \varpi) = \rho(\varpi, \mathfrak{N})$  for all  $\mathfrak{N}, \varpi \in \Upsilon$ ;
- (A4)  $\rho(\mathfrak{N}, \varpi) \leq s(\rho(\mathfrak{N}, \gamma) + \rho(\gamma, \varpi)) - \rho(\gamma, \gamma)$  for all  $\mathfrak{N}, \varpi, \gamma \in \Upsilon$ .

Then  $\rho$  is said to be a  $\mathcal{C}^*$ -algebra-valued partial  $b$ -metric on  $\Upsilon$ , and  $(\Upsilon, \mathcal{H}, \rho)$  is said to be a  $\mathcal{C}^*$ -algebra-valued partial  $b$ -metric space.

**Example 2.1** Let  $\Upsilon = [0, 1]$  and  $\mathcal{H} = \mathcal{M}_2(\mathbb{C})$ , the class of bounded and linear operators on a Hilbert space  $\mathbb{C}^2$ . Define  $\rho : \Upsilon \times \Upsilon \rightarrow \mathcal{H}$  by

$$\rho(\mathfrak{N}, \varpi) = \begin{bmatrix} |\mathfrak{N} - \varpi|^2 & 0 \\ 0 & \mathbb{k}|\mathfrak{N} - \varpi|^2 \end{bmatrix} + \begin{bmatrix} \max\{\mathfrak{N}, \varpi\}^2 & 0 \\ 0 & \mathbb{k}\max\{\mathfrak{N}, \varpi\}^2 \end{bmatrix},$$

where  $\mathbb{k} \geq 0$  and for all  $\mathfrak{N}, \varpi \in \Upsilon$ . Then,  $(\Upsilon, \mathcal{H}, \rho)$  is a  $\mathcal{C}^*$ -algebra-valued partial  $b$ -metric space. However, it is easy to see that  $(\Upsilon, \mathcal{H}, \rho)$  is not a  $\mathcal{C}^*$ -algebra-valued  $b$ -metric space.

To substantiate the claim, for any nonzero element  $\aleph \in \Upsilon$ , we have

$$\rho(\aleph, \aleph) = \begin{bmatrix} \aleph^2 & 0 \\ 0 & \mathbb{K}\aleph^2 \end{bmatrix} \neq \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} = 0_{\mathcal{H}}$$

Therefore,  $(\Upsilon, \mathcal{H}, \rho)$  is not a  $\mathcal{C}^*$ -algebra-valued  $b$ -metric space.

**Definition 2.4** A sequence  $\{\aleph_\alpha\}$  in  $(\Upsilon, \mathcal{H}, \rho)$  is called convergent (with respect to  $\mathcal{H}$ ) to a point  $\aleph \in \Upsilon$  if, for given  $\epsilon > 0$ , there exists  $\mathfrak{k} \in \mathbb{N}$  such that  $\|\rho(\aleph_\alpha, \aleph) - \rho(\aleph, \aleph)\| < \epsilon$ , for all  $\alpha > \mathfrak{k}$ . We denote it by

$$\lim_{\alpha \rightarrow \infty} \rho(\aleph_\alpha, \aleph) = \rho(\aleph, \aleph).$$

**Definition 2.5** A sequence  $\{\aleph_\alpha\}$  in  $(\Upsilon, \mathcal{H}, \rho)$  is called Cauchy (with respect to  $\mathcal{H}$ ) if  $\lim_{\alpha \rightarrow \infty} \rho(\aleph_\alpha, \aleph_m)$  exists and it is finite.

**Definition 2.6** The triplet  $(\Upsilon, \mathcal{H}, \rho)$  is called a complete  $C^*$ -algebra-valued partial  $b$ -metric space if every Cauchy sequence in  $\Upsilon$  is convergent to some point  $\aleph$  in  $\Upsilon$  such that

$$\lim_{\alpha \rightarrow \infty} \rho(\aleph_\alpha, \aleph_m) = \lim_{\alpha \rightarrow \infty} \rho(\aleph_\alpha, \aleph) = \rho(\aleph, \aleph).$$

**Definition 2.7** ([22]) Let  $\Upsilon$  be a nonempty set. An element  $(\aleph, \varpi) \in \Upsilon \times \Upsilon$  is said to be

- (1) a coupled fixed point of the mapping  $\mathcal{T} : \Upsilon \times \Upsilon \rightarrow \Upsilon$  if  $\mathcal{T}(\aleph, \varpi) = \aleph$  and  $\mathcal{T}(\varpi, \aleph) = \varpi$ .
- (2) a coupled coincidence point of the mapping  $\mathcal{T} : \Upsilon \times \Upsilon \rightarrow \Upsilon$  and  $g : \Upsilon \rightarrow \Upsilon$  if  $\mathcal{T}(\aleph, \varpi) = g\aleph$  and  $\mathcal{T}(\varpi, \aleph) = g\varpi$ . In this case  $(g\aleph, g\varpi)$  is said to be a coupled point of coincidence.
- (3) a common coupled fixed point of the mapping  $\mathcal{T} : \Upsilon \times \Upsilon \rightarrow \Upsilon$  and  $g : \Upsilon \rightarrow \Upsilon$  if  $\mathcal{T}(\aleph, \varpi) = g\aleph = \aleph$  and  $\mathcal{T}(\varpi, \aleph) = g\varpi = \varpi$ .

Note that Definition 2.7(3) reduces to Definition 2.7(1) if the mapping  $g$  is the identity mapping.

**Definition 2.8** ([22]) The mappings  $\mathcal{T} : \Upsilon \times \Upsilon \rightarrow \Upsilon$  and  $g : \Upsilon \rightarrow \Upsilon$  is said to be  $\omega$ -compatible if  $g(\mathcal{T}(\aleph, \varpi)) = \mathcal{T}(g\aleph, g\varpi)$  whenever  $g\aleph = \mathcal{T}(\aleph, \varpi)$  and  $g\varpi = \mathcal{T}(\varpi, \aleph)$ .

In this paper, we prove coupled fixed point theorems on  $C^*$ -algebra-valued partial  $b$ -metric space.

### 3 Main results

In this section we shall prove some common coupled fixed point theorems for different contractive mappings in the setting of  $\mathcal{C}^*$ -algebra-valued partial  $b$ -metric spaces. Now we give our main results.

**Theorem 3.1** Let  $(\Upsilon, \mathcal{H}, \rho)$  be a complete  $\mathcal{C}^*$ -algebra-valued partial  $b$ -metric space with coefficient  $s$ . Suppose that the mappings  $\mathcal{T} : \Upsilon \times \Upsilon \rightarrow \Upsilon$  and  $g : \Upsilon \rightarrow \Upsilon$  satisfy the following

condition:

$$\rho(\mathcal{T}(\aleph, \varpi), \mathcal{T}(\iota, \nu)) \leq r^* \rho(g\aleph, g\iota)r + r^* \rho(g\varpi, g\nu)r \quad \text{for any } \aleph, \varpi, \iota, \nu \in \Upsilon, \quad (1)$$

where  $r \in \mathcal{H}$  with  $\|r\| < \frac{1}{\sqrt{2}}$  and  $\|s\|\|\sqrt{2}r\|^2 < 1$ . If  $\mathcal{T}(\Upsilon \times \Upsilon) \subseteq g(\Upsilon)$  and  $g(\Upsilon)$  is complete in  $\Upsilon$ , then  $\mathcal{T}$  and  $g$  have a coupled coincidence point and  $\rho(g\aleph, g\aleph) = 0_{\mathcal{H}}$  and  $\rho(g\varpi, g\varpi) = 0_{\mathcal{H}}$ . Moreover, if  $\mathcal{T}$  and  $g$  are  $\omega$ -compatible, then they have a unique common coupled fixed point in  $\Upsilon$ .

*Proof* Take  $\aleph_0, \varpi_0 \in \Upsilon$ , and let  $g(\aleph_1) = \mathcal{T}(\aleph_0, \varpi_0)$  and  $g(\varpi_1) = \mathcal{T}(\varpi_0, \aleph_0)$ . One can obtain two sequences  $\{\aleph_\alpha\}$  and  $\{\varpi_\alpha\}$  by continuing this process such that  $g(\aleph_{\alpha+1}) = \mathcal{T}(\aleph_\alpha, \varpi_\alpha)$  and  $g(\varpi_{\alpha+1}) = \mathcal{T}(\varpi_\alpha, \aleph_\alpha)$ . From (1), we get

$$\begin{aligned} \rho(g\aleph_\alpha, g\aleph_{\alpha+1}) &= \rho(\mathcal{T}(\aleph_{\alpha-1}, \varpi_{\alpha-1}), \mathcal{T}(\aleph_\alpha, \varpi_\alpha)) \\ &\leq r^* (\rho(g\aleph_{\alpha-1}, g\aleph_\alpha))r + r^* (\rho(g\varpi_{\alpha-1}, g\varpi_\alpha))r \\ &\leq r^* (\rho(g\aleph_{\alpha-1}, g\aleph_\alpha)) + (\rho(g\varpi_{\alpha-1}, g\varpi_\alpha))r. \end{aligned} \quad (2)$$

Similarly,

$$\begin{aligned} \rho(g\varpi_\alpha, g\varpi_{\alpha+1}) &= \rho(\mathcal{T}(\varpi_{\alpha-1}, \aleph_{\alpha-1}), \mathcal{T}(\varpi_\alpha, \aleph_\alpha)) \\ &\leq r^* (\rho(g\varpi_{\alpha-1}, g\varpi_\alpha))r + r^* (\rho(g\aleph_{\alpha-1}, g\aleph_\alpha))r \\ &\leq r^* (\rho(g\varpi_{\alpha-1}, g\varpi_\alpha)) + (\rho(g\aleph_{\alpha-1}, g\aleph_\alpha))r. \end{aligned} \quad (3)$$

Let

$$\mathfrak{Z}_\alpha = \rho(g\aleph_\alpha, g\aleph_{\alpha+1}) + \rho(g\varpi_\alpha, g\varpi_{\alpha+1}),$$

and now from (2) and (3), we have

$$\begin{aligned} \mathfrak{Z}_\alpha &= \rho(g\aleph_\alpha, g\aleph_{\alpha+1}) + \rho(g\varpi_\alpha, g\varpi_{\alpha+1}) \\ &\leq r^* (\rho(g\aleph_{\alpha-1}, g\aleph_\alpha) + \rho(g\varpi_{\alpha-1}, g\varpi_\alpha))r + r^* (\rho(g\varpi_{\alpha-1}, g\varpi_\alpha) + \rho(g\aleph_{\alpha-1}, g\aleph_\alpha))r \\ &\leq (\sqrt{2}r)^* (\rho(g\aleph_{\alpha-1}, g\aleph_\alpha) + \rho(g\varpi_{\alpha-1}, g\varpi_\alpha))(\sqrt{2}r) \\ &\leq (\sqrt{2}r)^* \mathfrak{Z}_{\alpha-1}(\sqrt{2}r), \end{aligned}$$

which, together with the property: if  $s, t \in \mathcal{H}_0$ , then  $s \leq t$  implies  $r^*sr \leq r^*tr$  (Theorem 2.2.5 in [27]), yields that for each  $\alpha \in \mathbb{N}$ ,

$$0_{\mathcal{H}} \leq \mathfrak{Z}_\alpha \leq (\sqrt{2}r)^* \mathfrak{Z}_{\alpha-1}(\sqrt{2}r) \leq \cdots \leq [(\sqrt{2}r)^*]^\alpha \mathfrak{Z}_0(\sqrt{2}r)^\alpha.$$

If  $\mathfrak{Z}_0 = 0_{\mathcal{H}}$ , then we know that  $\mathcal{T}$  and  $g$  have a coupled coincidence point  $(\aleph_0, \varpi_0)$ . Now, letting  $0_{\mathcal{H}} < \mathfrak{Z}_0$ , we can obtain for  $\wp > \alpha$ ,  $\alpha, \wp \in \mathbb{N}$ ,

$$\rho(g\aleph_\alpha, g\aleph_\wp) \leq s(\rho(g\aleph_\alpha, g\aleph_{\alpha+1}) + \rho(g\aleph_{\alpha+1}, g\aleph_\wp)) - \rho(g\aleph_{\alpha+1}, g\aleph_{\alpha+1})$$



$$\begin{aligned}
 &\leq s\rho(g\aleph_{\alpha}, g\aleph_{\alpha+1}) + s^2(\rho(g\aleph_{\alpha+1}, g\aleph_{\alpha+2}) + \rho(g\aleph_{\alpha+2}, g\aleph_{\wp})) \\
 &\quad - \rho(g\aleph_{\alpha+1}, g\aleph_{\alpha+1}) - \rho(g\aleph_{\alpha+2}, g\aleph_{\alpha+2}) \\
 &\leq s\rho(g\aleph_{\alpha}, g\aleph_{\alpha+1}) + s^2\rho(g\aleph_{\alpha+1}, g\aleph_{\alpha+2}) \\
 &\quad + \cdots + s^{\wp-\alpha-1}(\rho(g\aleph_{\wp-2}, g\aleph_{\wp-1}) + \rho(g\aleph_{\wp-1}, g\aleph_{\wp})) \\
 &\quad - \rho(g\aleph_{\alpha+1}, g\aleph_{\alpha+1}) - \cdots - \rho(g\aleph_{\wp-1}, g\aleph_{\wp-1}) \\
 &\leq s\rho(g\aleph_{\alpha}, g\aleph_{\alpha+1}) + s^2\rho(g\aleph_{\alpha+1}, g\aleph_{\alpha+2}) \\
 &\quad + \cdots + s^{\wp-\alpha-1}\rho(g\aleph_{\wp-2}, g\aleph_{\wp-1}) + s^{\wp-\alpha-1}\rho(g\aleph_{\wp-1}, g\aleph_{\wp}), \\
 \rho(g\varpi_{\alpha}, g\varpi_{\wp}) &\leq s(\rho(g\varpi_{\alpha}, g\varpi_{\alpha+1}) + \rho(g\varpi_{\alpha+1}, g\varpi_{\wp})) - \rho(g\varpi_{\alpha+1}, g\varpi_{\alpha+1}) \\
 &\leq s\rho(g\varpi_{\alpha}, g\varpi_{\alpha+1}) + s^2(\rho(g\varpi_{\alpha+1}, g\varpi_{\alpha+2}) + \rho(g\varpi_{\alpha+2}, g\varpi_{\wp})) \\
 &\quad - \rho(g\varpi_{\alpha+1}, g\varpi_{\alpha+1}) - \rho(g\varpi_{\alpha+2}, g\varpi_{\alpha+2}) \\
 &\leq s\rho(g\varpi_{\alpha}, g\varpi_{\alpha+1}) + s^2\rho(g\varpi_{\alpha+1}, g\varpi_{\alpha+2}) \\
 &\quad + \cdots + s^{\wp-\alpha-1}(\rho(g\varpi_{\wp-2}, g\varpi_{\wp-1}) + \rho(g\varpi_{\wp-1}, g\varpi_{\wp})) \\
 &\quad - \rho(g\varpi_{\alpha+1}, g\varpi_{\alpha+1}) - \cdots - \rho(g\varpi_{\wp-1}, g\varpi_{\wp-1}) \\
 &\leq s\rho(g\varpi_{\alpha}, g\varpi_{\alpha+1}) + s^2\rho(g\varpi_{\alpha+1}, g\varpi_{\alpha+2}) \\
 &\quad + \cdots + s^{\wp-\alpha-1}\rho(g\varpi_{\wp-2}, g\varpi_{\wp-1}) + s^{\wp-\alpha-1}\rho(g\varpi_{\wp-1}, g\varpi_{\wp}).
 \end{aligned}$$

Consequently,

$$\begin{aligned}
 &\rho(g\aleph_{\alpha}, g\aleph_{\wp}) + \rho(g\varpi_{\alpha}, g\varpi_{\wp}) \\
 &\leq s\aleph_{\alpha} + s^2\aleph_{\alpha+1} + \cdots + s^{\wp-\alpha-1}\aleph_{\wp-2} \\
 &\quad + s^{\wp-\alpha-1}\aleph_{\wp-1} \\
 &= s \sum_{k=\alpha}^{\wp-2} s^{k-\alpha} [(\sqrt{2}r)^*]^k \aleph_0 [\sqrt{2}r]^k \\
 &\quad + s^{\wp-\alpha-1} [(\sqrt{2}r)^*]^{\wp-1} \aleph_0 [\sqrt{2}r]^{\wp-1} \\
 &= s \sum_{k=\alpha}^{\wp-2} s^{k-\alpha} [(\sqrt{2}r)^*]^k \aleph_0^{\frac{1}{2}} \aleph_0^{\frac{1}{2}} [\sqrt{2}r]^k \\
 &\quad + s^{\wp-\alpha-1} [(\sqrt{2}r)^*]^{\wp-1} \aleph_0^{\frac{1}{2}} \aleph_0^{\frac{1}{2}} [\sqrt{2}r]^{\wp-1} \\
 &= s \sum_{k=\alpha}^{\wp-2} s^{k-\alpha} [\aleph_0^{\frac{1}{2}} (\sqrt{2}r)^k]^* [\aleph_0^{\frac{1}{2}} (\sqrt{2}r)^k] \\
 &\quad + s^{\wp-\alpha-1} [\aleph_0^{\frac{1}{2}} (\sqrt{2}r)^{\wp-1}]^* [\aleph_0^{\frac{1}{2}} (\sqrt{2}r)^{\wp-1}] \\
 &= s \sum_{k=\alpha}^{\wp-2} s^{k-\alpha} \left| \aleph_0^{\frac{1}{2}} (\sqrt{2}r)^k \right|^2 \\
 &\quad + s^{\wp-\alpha-1} \left| \aleph_0^{\frac{1}{2}} (\sqrt{2}r)^{\wp-1} \right|^2
 \end{aligned}$$

$$\begin{aligned}
 & \leq \left\| s \sum_{k=\alpha}^{\wp-2} s^{k-\alpha} \left| \mathfrak{I}_0^{\frac{1}{2}} (\sqrt{2}r)^k \right|^2 \right\| I \\
 & \quad + \left\| s^{\wp-\alpha-1} \left| \mathfrak{I}_0^{\frac{1}{2}} (\sqrt{2}r)^{\wp-1} \right|^2 \right\| I \\
 & \leq \|s\| \sum_{k=\alpha}^{\wp-2} \|s\|^{k-\alpha} \left\| \mathfrak{I}_0^{\frac{1}{2}} \right\|^2 \|(\sqrt{2}r)^k\|^2 I \\
 & \quad + \|s\|^{\wp-\alpha-1} \left\| \mathfrak{I}_0^{\frac{1}{2}} \right\|^2 \|(\sqrt{2}r)^{\wp-1}\|^2 I \\
 & \leq \|s\|^{1-\alpha} \left\| \mathfrak{I}_0^{\frac{1}{2}} \right\|^2 \sum_{k=\alpha}^{\wp-2} \|s\|^k \|(\sqrt{2}r)^2\|^k I \\
 & \quad + \|s\|^{-\alpha} \|s\|^{\wp-1} \left\| \mathfrak{I}_0^{\frac{1}{2}} \right\|^2 \|(\sqrt{2}r)^{\wp-1}\|^2 I \\
 & \leq \|s\|^{1-\alpha} \left\| \mathfrak{I}_0^{\frac{1}{2}} \right\|^2 \sum_{k=\alpha}^{\wp-2} (\|s\| \|(\sqrt{2}r)^2\|)^k I \\
 & \quad + \|s\|^{-\alpha} \left\| \mathfrak{I}_0^{\frac{1}{2}} \right\|^2 (\|s\| \|(\sqrt{2}r)^2\|)^{\wp-1} I \\
 & \rightarrow 0 \quad \text{as } (\wp, \alpha \rightarrow \infty), \tag{4}
 \end{aligned}$$

which follows from the observation that the sum in the first term is a geometric series and  $\|s\| \|(\sqrt{2}r)^2\| < 1$  implies that  $(\|s\| \|(\sqrt{2}r)^2\|)^{\wp-1} \rightarrow 0$  and  $(\|s\| \|(\sqrt{2}r)^2\|)^{\alpha} \rightarrow 0$ . This proves that  $\{g\mathfrak{N}_\alpha\}$  and  $\{g\varpi_\alpha\}$  are Cauchy sequences in  $g(\Upsilon)$ . Since  $\{g\varpi_\alpha\}$  is complete, there exist  $\mathfrak{N}, \varpi \in \Upsilon$  such that

$$\begin{aligned}
 \rho(g\mathfrak{N}, g\mathfrak{N}) &= \lim_{n \rightarrow \infty} \rho(g\mathfrak{N}_\alpha, g\mathfrak{N}) = \lim_{n \rightarrow \infty} \rho(g\mathfrak{N}_\alpha, g\mathfrak{N}_m), \\
 \rho(g\varpi, g\varpi) &= \lim_{n \rightarrow \infty} \rho(g\varpi_\alpha, g\varpi) = \lim_{n \rightarrow \infty} \rho(g\varpi_\alpha, g\varpi_m).
 \end{aligned}$$

By (4), we have

$$\lim_{n \rightarrow \infty} \rho(g\mathfrak{N}_\alpha, g\mathfrak{N}) + \lim_{n \rightarrow \infty} \rho(g\varpi_\alpha, g\varpi) = \rho(g\mathfrak{N}, g\mathfrak{N}) + \rho(g\varpi, g\varpi) = 0_{\mathcal{H}}.$$

Now, we prove that  $\mathcal{T}(\mathfrak{N}, \varpi) = g\mathfrak{N}$  and  $\mathcal{T}(\varpi, \mathfrak{N}) = g\varpi$ . For that we have

$$\begin{aligned}
 \rho(\mathcal{T}(\mathfrak{N}, \varpi), g\mathfrak{N}) &\leq s(\rho(\mathcal{T}(\mathfrak{N}, \varpi), g\mathfrak{N}_{\alpha+1}) + \rho(g\mathfrak{N}_{\alpha+1}, g\mathfrak{N})) - \rho(g\mathfrak{N}_{\alpha+1}, g\mathfrak{N}_{\alpha+1}) \\
 &\leq s\rho(\mathcal{T}(\mathfrak{N}, \varpi), \mathcal{T}(\mathfrak{N}_\alpha, \varpi_\alpha)) + s\rho(g\mathfrak{N}_{\alpha+1}, g\mathfrak{N}) \\
 &\leq sr^* \rho(g\mathfrak{N}_\alpha, g\mathfrak{N})r + sr^* \rho(g\varpi_\alpha, g\varpi)r + s\rho(g\mathfrak{N}_{\alpha+1}, g\mathfrak{N}).
 \end{aligned}$$

Taking the limit as  $\alpha \rightarrow \infty$  in the above relation, we get  $\rho(\mathcal{T}(\mathfrak{N}, \varpi), g\mathfrak{N}) = 0_{\mathcal{H}}$  and hence  $\mathcal{T}(\mathfrak{N}, \varpi) = g\mathfrak{N}$ . Similarly,  $\mathcal{T}(\varpi, \mathfrak{N}) = g\varpi$ . Therefore,  $\mathcal{T}$  and  $g$  have a coupled coincidence point  $(\mathfrak{N}, \varpi)$ .

Now if  $\mathcal{T}$  and  $g$  have a coupled coincidence point  $(\mathfrak{N}', \varpi')$ , then

$$\begin{aligned}
 \rho(g\mathfrak{N}, g\mathfrak{N}') &= \rho(\mathcal{T}(\mathfrak{N}, \varpi), \mathcal{T}(\mathfrak{N}', \varpi')) \leq r^* \rho(g\mathfrak{N}, g\mathfrak{N}')r + r^* \rho(g\varpi, g\varpi')r, \\
 \rho(g\varpi, g\varpi') &= \rho(\mathcal{T}(\varpi, \mathfrak{N}), \mathcal{T}(\varpi', \mathfrak{N}')) \leq r^* \rho(g\varpi, g\varpi')r + r^* \rho(g\mathfrak{N}, g\mathfrak{N}')r,
 \end{aligned}$$

and hence

$$\rho(g\aleph, g\aleph') + \rho(g\varpi, g\varpi') \leq (\sqrt{2}r)^*(\rho(g\aleph, g\aleph') + \rho(g\varpi, g\varpi'))(\sqrt{2}r),$$

which further induces that

$$\|\rho(g\aleph, g\aleph') + \rho(g\varpi, g\varpi')\| \leq \|(\sqrt{2}r)\|^2 \|\rho(g\aleph, g\aleph') + \rho(g\varpi, g\varpi')\|.$$

Since  $\|(\sqrt{2}r)\| \leq 1$ , then  $\|\rho(g\aleph, g\aleph') + \rho(g\varpi, g\varpi')\| = 0$ . Hence, we get  $g\aleph = g\aleph'$  and  $g\varpi = g\varpi'$ . Similarly, we can prove that  $g\aleph = g\varpi'$  and  $g\varpi = g\aleph'$ . Then  $\mathcal{T}$  and  $g$  have a unique coupled point of coincidence  $(g\aleph, g\aleph)$ . Moreover, if  $v = g\aleph$ , then  $v = g\aleph = \mathcal{T}(\aleph, \aleph)$ . Since  $\mathcal{T}$  and  $g$  are  $\omega$ -compatible,

$$gv = g(g\aleph) = g(\mathcal{T}(\aleph, \aleph)) = \mathcal{T}(g\aleph, g\aleph) = \mathcal{T}(v, v),$$

which means that  $\mathcal{T}$  and  $g$  have a coupled point of coincidence  $(gv, gv)$ . By the uniqueness, we know  $gv = g\aleph$ , which yields that  $v = gv = \mathcal{T}(v, v)$ . Therefore,  $F$  and  $g$  have a unique common coupled fixed point  $(v, v)$ .  $\square$

**Example 3.2** Let  $\Upsilon = \mathcal{R}$  and  $\mathcal{H} = \mathcal{M}_2(\mathbb{C})$  and the map  $\rho : \Upsilon \times \Upsilon \rightarrow \mathcal{H}$  is defined by

$$\rho(\aleph, \varpi) = \begin{bmatrix} |\aleph - \varpi|^2 & 0 \\ 0 & \mathbb{k}|\aleph - \varpi|^2 \end{bmatrix} + \begin{bmatrix} \max\{\aleph, \varpi\}^2 & 0 \\ 0 & \mathbb{k}\max\{\aleph, \varpi\}^2 \end{bmatrix},$$

where  $\mathbb{k} > 0$  is a constant. Then  $(\Upsilon, \mathcal{H}, \rho)$  is a complete  $\mathcal{C}^*$ -algebra-valued partial  $b$ -metric space. Consider the mappings  $\mathcal{T} : \Upsilon \times \Upsilon \rightarrow \Upsilon$  with  $\mathcal{T}(\aleph, \varpi) = \frac{\aleph + \varpi}{2}$  and  $g : \Upsilon \rightarrow \Upsilon$  with  $g(\aleph) = 2\aleph$ . Set  $\lambda \in \mathbb{C}$  with  $|\lambda| < \frac{1}{\sqrt{2}}$ , and  $r = \begin{bmatrix} \lambda & 0 \\ 0 & \lambda \end{bmatrix}$ , then  $r \in \mathcal{H}$  and  $\|r\|_\infty = |\lambda|$ . Clearly,  $\mathcal{T}$  and  $g$  are  $\omega$ -compatible. Moreover, one can verify that  $\mathcal{T}$  satisfies the contractivity condition

$$\rho(\mathcal{T}(\aleph, \varpi), \mathcal{T}(u, v)) \leq r^* \mathcal{T}(\aleph, u) r + r^* \mathcal{T}(\varpi, v) r \quad \text{for any } \aleph, \varpi, u, v \in \Upsilon.$$

In this case,  $(0, 0)$  is a coupled coincidence point of  $\mathcal{T}$  and  $g$ . Moreover,  $(0, 0)$  is a unique common coupled fixed point of  $\mathcal{T}$  and  $g$ .

**Corollary 3.3** Let  $(\Upsilon, \mathcal{H}, \rho)$  be a complete  $\mathcal{C}^*$ -algebra-valued partial  $b$ -metric space with coefficient  $s$ . Suppose that the mapping  $\mathcal{T} : \Upsilon \times \Upsilon \rightarrow \Upsilon$  satisfies the following condition:

$$\rho(\mathcal{T}(\aleph, \varpi), \mathcal{T}(u, v)) \leq r^* \rho(\aleph, u) r + r^* \rho(\varpi, v) r \quad \text{for any } \aleph, \varpi, u, v \in \Upsilon, \quad (5)$$

where  $r \in \mathcal{H}$  with  $\|r\| < \frac{1}{\sqrt{2}}$  and  $\|s\| \|\sqrt{2}r\|^2 < 1$ . Then  $\mathcal{T}$  has a unique coupled fixed point.

Before going to another theorem, we recall the following lemma of [27].

**Lemma 3.4** Suppose that  $\mathcal{H}$  is a unital  $\mathcal{C}^*$ -algebra with a unit  $1_{\mathcal{H}}$ .

1. If  $r \in \mathcal{H}_+$  with  $\|r\| < \frac{1}{2}$ , then  $1_{\mathcal{H}} - r$  is invertible.
2. If  $r, b \in \mathcal{H}_+$  and  $rb = br$ , then  $0_{\mathcal{H}} \leq rb$ .
3. If  $r, b \in \mathcal{H}'_{\mathfrak{g}}$  and  $t \in \mathcal{H}'_+$  then  $r \leq b$  deduces  $tr \leq tb$ , where  $\mathcal{H}'_+ = \mathcal{H}_+ \cap \mathcal{H}'$ .



**Theorem 3.5** *Let  $(\Upsilon, \mathcal{H}, \rho)$  be a complete  $\mathcal{C}^*$ -algebra-valued partial  $b$ -metric space with coefficient  $s$ . Suppose that the mappings  $\mathcal{T} : \Upsilon \times \Upsilon \rightarrow \Upsilon$  and  $g : \Upsilon \rightarrow \Upsilon$  satisfies the following condition:*

$$\rho(\mathcal{T}(\aleph, \varpi), \mathcal{T}(u, v)) \leq r\rho(\mathcal{T}(\aleph, \varpi), g\aleph) + b\rho(\mathcal{T}(u, v), gu), \quad (6)$$

for any  $\aleph, \varpi, u, v \in \Upsilon$ , where  $r, b \in \mathcal{H}'_+$  with  $\|r\| + \|b\| < 1$ . If  $\mathcal{T}(\Upsilon \times \Upsilon) \subseteq g(\Upsilon)$  and  $g(\Upsilon)$  is complete in  $\Upsilon$ , then  $\mathcal{T}$  and  $g$  have a coupled coincidence point and  $\rho(g\aleph, g\aleph) = 0_{\mathcal{H}}$  and  $\rho(g\varpi, g\varpi) = 0_{\mathcal{H}}$ . Moreover, if  $\mathcal{T}$  and  $g$  are  $\omega$ -compatible, then they have unique common coupled fixed point in  $\Upsilon$ .

*Proof* As in the proof of Theorem 3.1, construct two sequences  $\{\aleph_\alpha\}$  and  $\{\varpi_\alpha\}$  in  $\Upsilon$  such that  $g\aleph_{\alpha+1} = \mathcal{T}(\aleph_\alpha, \varpi_\alpha)$  and  $g\varpi_{\alpha+1} = \mathcal{T}(\varpi_\alpha, \aleph_\alpha)$ . Then by applying (6), we have

$$\begin{aligned} (1_{\mathcal{H}} - b)\rho(g\aleph_\alpha, g\aleph_{\alpha+1}) &\leq r\rho(g\aleph_\alpha, g\aleph_{\alpha-1}), \\ (1_{\mathcal{H}} - b)\rho(g\varpi_\alpha, g\varpi_{\alpha+1}) &\leq r\rho(g\varpi_\alpha, g\varpi_{\alpha-1}). \end{aligned}$$

Since  $r, b \in \mathcal{H}'_+$  with  $\|r\| + \|b\| < 1$ , we have  $1_{\mathcal{H}} - b$  is invertible and  $(1_{\mathcal{H}} - b)^{-1}r \in \mathcal{H}'_+$ . Therefore

$$\begin{aligned} \rho(g\aleph_\alpha, g\aleph_{\alpha+1}) &\leq (1_{\mathcal{H}} - b)^{-1}r\rho(g\aleph_\alpha, g\aleph_{\alpha-1}), \\ \rho(g\varpi_\alpha, g\varpi_{\alpha+1}) &\leq (1_{\mathcal{H}} - b)^{-1}r\rho(g\varpi_\alpha, g\varpi_{\alpha-1}). \end{aligned}$$

Then

$$\begin{aligned} \|\rho(g\aleph_\alpha, g\aleph_{\alpha+1})\| &\leq \|(1_{\mathcal{H}} - b)^{-1}r\| \|\rho(g\aleph_\alpha, g\aleph_{\alpha-1})\|, \\ \|\rho(g\varpi_\alpha, g\varpi_{\alpha+1})\| &\leq \|(1_{\mathcal{H}} - b)^{-1}r\| \|\rho(g\varpi_\alpha, g\varpi_{\alpha-1})\|. \end{aligned}$$

It follows from the fact

$$\|(1_{\mathcal{H}} - b)^{-1}r\| \leq \|(1_{\mathcal{H}} - b)^{-1}\| \|r\| \leq \sum_{k=0}^{\infty} \|b\|^k \|r\| = \frac{\|r\|}{1 - \|b\|} < 1$$

that  $\{g\aleph_\alpha\}$  and  $\{g\varpi_\alpha\}$  are Cauchy sequences in  $g(\Upsilon)$  and therefore, by the completeness of  $g(\Upsilon)$ , there are  $\aleph, \varpi \in \Upsilon$  such that  $\lim_{\alpha \rightarrow \infty} g\aleph_\alpha = g\aleph$  and

$$\rho(g\aleph, g\aleph) = \lim_{n \rightarrow \infty} \rho(g\aleph_n, g\aleph) = \lim_{n \rightarrow \infty} \rho(g\aleph_n, g\aleph_n) = 0_{\mathcal{H}},$$

$\lim_{\alpha \rightarrow \infty} g\varpi_\alpha = g\varpi$  and

$$\rho(g\varpi, g\varpi) = \lim_{n \rightarrow \infty} \rho(g\varpi_n, g\varpi) = \lim_{n \rightarrow \infty} \rho(g\varpi_n, g\varpi_n) = 0_{\mathcal{H}}.$$

Since

$$\rho(\mathcal{T}(\aleph, \varpi), g\aleph) \leq s[\rho(g\aleph_{\alpha+1}, \mathcal{T}(\aleph, \varpi)) + \rho(g\aleph_{\alpha+1}, g\aleph)] - \rho(g\aleph_{\alpha+1}, g\aleph_{\alpha+1})$$

$$\begin{aligned}
 &\leq s[\rho(g\aleph_{\alpha+1}, \mathcal{T}(\aleph, \varpi)) + \rho(g\aleph_{\alpha+1}, g\aleph)] \\
 &= s(\rho(\mathcal{T}(\aleph_{\alpha}, \varpi_{\alpha}), \mathcal{T}(\aleph, \varpi)) + \rho(g\aleph_{\alpha+1}, g\aleph)) \\
 &\leq sr\rho(\mathcal{T}(\aleph_{\alpha}, \varpi_{\alpha}), g\aleph_{\alpha}) + sb\rho(\mathcal{T}(\aleph, \varpi), g\aleph) + s\rho(g\aleph_{\alpha+1}, g\aleph) \\
 &\leq sr\rho(g\aleph_{\alpha+1}, g\aleph_{\alpha}) + sb\rho(\mathcal{T}(\aleph, \varpi), g\aleph) + s\rho(g\aleph_{\alpha+1}, g\aleph),
 \end{aligned}$$

hence

$$\rho(\mathcal{T}(\aleph, \varpi), g\aleph) \leq (1 - sb)^{-1}sr\rho(g\aleph_{\alpha+1}, g\aleph_{\alpha}) + (1 - sb)^{-1}s\rho(g\aleph_{\alpha+1}, g\aleph_{\alpha}).$$

Then  $\rho(\mathcal{T}(\aleph, \varpi), g\aleph) = 0_{\mathcal{H}}$ , or equivalently,  $\mathcal{T}(\aleph, \varpi) = g\aleph$ . Similarly, one can obtain  $\mathcal{T}(\varpi, \aleph) = g\varpi$ .

Now, if  $(\aleph', \varpi')$  is another coupled coincidence point of  $\mathcal{T}$  and  $g$ , then according to (6), we obtain

$$\begin{aligned}
 \rho(g\aleph', g\aleph) &\leq \rho(\mathcal{T}(\aleph', \varpi'), \mathcal{T}(\aleph, \varpi)) \\
 &\leq r\rho(\mathcal{T}(\aleph', \varpi'), g\aleph') + b\rho(\mathcal{T}(\aleph, \varpi), g\aleph) \\
 &= r\rho(g\aleph', g\aleph') + b\rho(g\aleph, g\aleph) = 0_{\mathcal{H}}
 \end{aligned}$$

and

$$\begin{aligned}
 \rho(g\varpi', g\varpi) &\leq \rho(\mathcal{T}(\varpi', \aleph'), \mathcal{T}(\varpi, \aleph)) \\
 &\leq r\rho(\mathcal{T}(\varpi', \aleph'), g\varpi') + b\rho(\mathcal{T}(\varpi, \aleph), g\varpi) \\
 &= r\rho(g\varpi', g\varpi') + b\rho(g\varpi, g\varpi) = 0_{\mathcal{H}},
 \end{aligned}$$

which implies that  $g\aleph' = g\aleph$  and  $g\varpi' = g\varpi$ . Similarly, we have  $g\aleph' = g\varpi$  and  $g\varpi' = g\aleph$ . Hence  $\mathcal{T}$  and  $g$  have a unique coupled point of coincidence  $(g\aleph, g\aleph)$ . Moreover, we can show that  $\mathcal{T}$  and  $g$  have a unique common coupled fixed point.  $\square$

**Theorem 3.6** *Let  $(\Upsilon, \mathcal{H}, \rho)$  be a complete  $\mathcal{C}^*$ -algebra-valued partial  $b$ -metric space with coefficient  $s$ . Suppose that the mappings  $\mathcal{T} : \Upsilon \times \Upsilon \rightarrow \Upsilon$  and  $g : \Upsilon \rightarrow \Upsilon$  satisfies the following condition:*

$$\rho(\mathcal{T}(\aleph, \varpi), \mathcal{T}(u, v)) \leq r\rho(\mathcal{T}(\aleph, \varpi), gu) + b\rho(\mathcal{T}(u, v), g\aleph) \quad (7)$$

for any  $\aleph, \varpi, u, v \in \Upsilon$ , where  $r, b \in \mathcal{H}_+^{\rho'}$  with  $\|r\| + \|b\| < 1$  and  $\|sr\| + \|sb\| < 1$ . If  $\mathcal{T}(\Upsilon \times \Upsilon) \subseteq g(\Upsilon)$  and  $g(\Upsilon)$  is complete in  $\Upsilon$ , then  $\mathcal{T}$  and  $g$  have a coupled coincidence point and  $\rho(g\aleph, g\aleph) = 0_{\mathcal{H}}$  and  $\rho(g\varpi, g\varpi) = 0_{\mathcal{H}}$ . Moreover, if  $\mathcal{T}$  and  $g$  are  $\omega$ -compatible, then they have unique common coupled fixed point in  $\Upsilon$ .

*Proof* Following a similar argument given in the proof of Theorem 3.1, we construct two sequences  $\{\aleph_{\alpha}\}$  and  $\{\varpi_{\alpha}\}$  in  $\Upsilon$  such that  $g(\aleph_{\alpha+1}) = \mathcal{T}(\aleph_{\alpha}, \varpi_{\alpha})$  and  $g(\varpi_{\alpha+1}) = \mathcal{T}(\varpi_{\alpha}, \aleph_{\alpha})$ . Now, from (7), we have

$$\rho(g\aleph_{\alpha}, g\aleph_{\alpha+1}) = \rho(\mathcal{T}(\aleph_{\alpha-1}, \varpi_{\alpha-1}), \mathcal{T}(\aleph_{\alpha}, \varpi_{\alpha}))$$

$$\begin{aligned}
 &\leq r\rho(\mathcal{T}(\aleph_{\alpha-1}, \varpi_{\alpha-1}), g\aleph_{\alpha}) + \mathfrak{b}\rho(\mathcal{T}(\aleph_{\alpha}, \varpi_{\alpha}), g\aleph_{\alpha-1}) \\
 &\leq r\rho(g\aleph_{\alpha}, g\aleph_{\alpha}) + \mathfrak{b}\rho(g\aleph_{\alpha+1}, g\aleph_{\alpha-1}) \\
 &\leq r\rho(g\aleph_{\alpha+1}, g\aleph_{\alpha}) + s\mathfrak{b}\rho(g\aleph_{\alpha+1}, g\aleph_{\alpha}) + s\mathfrak{b}\rho(g\aleph_{\alpha}, g\aleph_{\alpha-1}) \\
 &\quad - \mathfrak{b}\rho(\rho(g\aleph_{\alpha}, g\aleph_{\alpha})) \\
 &\leq r\rho(g\aleph_{\alpha+1}, g\aleph_{\alpha}) + s\mathfrak{b}\rho(g\aleph_{\alpha+1}, g\aleph_{\alpha}) + s\mathfrak{b}\rho(g\aleph_{\alpha}, g\aleph_{\alpha-1}),
 \end{aligned}$$

from which it follows that

$$(1_{\mathcal{H}} - (r + s\mathfrak{b}))\rho(g\aleph_{\alpha}, g\aleph_{\alpha+1}) \leq s\mathfrak{b}\rho(g\aleph_{\alpha}, g\aleph_{\alpha-1}). \quad (8)$$

Because of the symmetry in (7), we have

$$\begin{aligned}
 \rho(g\aleph_{\alpha+1}, g\aleph_{\alpha}) &= \rho(\mathcal{T}(\aleph_{\alpha}, \varpi_{\alpha}), \mathcal{T}(\aleph_{\alpha-1}, \varpi_{\alpha-1})) \\
 &\leq r\rho(\mathcal{T}(\aleph_{\alpha}, \varpi_{\alpha}), g\aleph_{\alpha-1}) + \mathfrak{b}\rho(\mathcal{T}(\aleph_{\alpha-1}, \varpi_{\alpha-1}), g\aleph_{\alpha}) \\
 &\leq r\rho(g\aleph_{\alpha+1}, g\aleph_{\alpha-1}) + \mathfrak{b}\rho(g\aleph_{\alpha}, g\aleph_{\alpha}) \\
 &\leq sr\rho(g\aleph_{\alpha+1}, g\aleph_{\alpha}) + sr\rho(g\aleph_{\alpha}, g\aleph_{\alpha-1}) - r\rho(g\aleph_{\alpha}, g\aleph_{\alpha}) \\
 &\quad + \mathfrak{b}\rho(g\aleph_{\alpha+1}, g\aleph_{\alpha}) \\
 &\leq sr\rho(g\aleph_{\alpha+1}, g\aleph_{\alpha}) + sr\rho(g\aleph_{\alpha}, g\aleph_{\alpha-1}) + \mathfrak{b}\rho(g\aleph_{\alpha+1}, g\aleph_{\alpha}),
 \end{aligned}$$

that is,

$$(1_{\mathcal{H}} - (sr + \mathfrak{b}))\rho(g\aleph_{\alpha}, g\aleph_{\alpha+1}) \leq sr\rho(g\aleph_{\alpha}, g\aleph_{\alpha-1}). \quad (9)$$

Now, from (8) and (9) we obtain that

$$\left(1_{\mathcal{H}} - \frac{sr + s\mathfrak{b} + r + \mathfrak{b}}{2}\right)\rho(g\aleph_{\alpha}, g\aleph_{\alpha+1}) \leq \frac{sr + s\mathfrak{b}}{2}\rho(g\aleph_{\alpha}, g\aleph_{\alpha-1}).$$

If  $r, \mathfrak{b} \in \mathcal{H}'_+$  with  $\|r + \mathfrak{b}\| \leq \|r\| + \|\mathfrak{b}\| < 1$  and  $\|sr + s\mathfrak{b}\| \leq \|sr\| + \|s\mathfrak{b}\| < 1$ , then  $(1_{\mathcal{H}} - (\frac{sr+s\mathfrak{b}+r+\mathfrak{b}}{2}))^{-1} \in \mathcal{H}'_+$ , which, together with Lemma 3.4 (part 3), yields that

$$\rho(g\aleph_{\alpha}, g\aleph_{\alpha+1}) \leq \left(1_{\mathcal{H}} - \left(\frac{sr + s\mathfrak{b} + r + \mathfrak{b}}{2}\right)\right)^{-1} \frac{sr + s\mathfrak{b}}{2} \rho(g\aleph_{\alpha}, g\aleph_{\alpha-1}).$$

Let  $\mathfrak{c} = (1_{\mathcal{H}} - (\frac{sr+s\mathfrak{b}+r+\mathfrak{b}}{2}))^{-1} \frac{sr+s\mathfrak{b}}{2}$ , then

$$\|\mathfrak{c}\| = \left\| \left(1_{\mathcal{H}} - \left(\frac{sr + s\mathfrak{b} + r + \mathfrak{b}}{2}\right)\right)^{-1} \frac{sr + s\mathfrak{b}}{2} \right\| < 1.$$

The same argument as in the proof of Theorem 3.5 tells that  $\{g\aleph_{\alpha}\}$  is a Cauchy sequence in  $g(\Upsilon)$ . Similarly, we can show that  $\{g\varpi_{\alpha}\}$  is also a Cauchy sequence in  $g(\Upsilon)$ . Therefore, by the completeness of  $g(\Upsilon)$ , there are  $\aleph, \varpi \in \Upsilon$  such that  $\lim_{\alpha \rightarrow \infty} g\aleph_{\alpha} = g\aleph$  and

$$\rho(g\aleph, g\aleph) = \lim_{n \rightarrow \infty} \rho(g\aleph_n, g\aleph_n) = \lim_{n \rightarrow \infty} \rho(g\aleph_n, g\aleph_n) = 0_{\mathcal{H}},$$



$\lim_{\alpha \rightarrow \infty} g\varpi_\alpha = g\varpi$  and

$$\rho(g\varpi, g\varpi) = \lim_{n \rightarrow \infty} \rho(g\varpi_\alpha, g\varpi) = \lim_{n \rightarrow \infty} \rho(g\varpi_\alpha, g\varpi_\alpha) = 0_{\mathcal{H}}.$$

Now, we prove that  $\mathcal{T}(\mathfrak{N}, \varpi) = g\mathfrak{N}$  and  $\mathcal{T}(\varpi, \mathfrak{N}) = g\varpi$ . For that we have

$$\begin{aligned} \rho(\mathcal{T}(\mathfrak{N}, \varpi), g\mathfrak{N}) &\leq s[\rho(g\mathfrak{N}_{\alpha+1}, \mathcal{T}(\mathfrak{N}, \varpi)) + \rho(g\mathfrak{N}_{\alpha+1}, g\mathfrak{N})] - \rho(g\mathfrak{N}_{\alpha+1}, g\mathfrak{N}_{\alpha+1}) \\ &\leq s\rho(\mathcal{T}(\mathfrak{N}_\alpha, \varpi_\alpha), \mathcal{T}(\mathfrak{N}, \varpi)) + s\rho(g\mathfrak{N}_{\alpha+1}, g\mathfrak{N}) \\ &\leq sr\rho(\mathcal{T}(\mathfrak{N}_\alpha, \varpi_\alpha), g\mathfrak{N}) + sb\rho(\mathcal{T}(\mathfrak{N}, \varpi), g\mathfrak{N}_\alpha) + s\rho(g\mathfrak{N}_{\alpha+1}, g\mathfrak{N}) \\ &\leq sr\rho(g\mathfrak{N}_{\alpha+1}, g\mathfrak{N}) + sb\rho(\mathcal{T}(\mathfrak{N}, \varpi), g\mathfrak{N}_\alpha) + s\rho(g\mathfrak{N}_{\alpha+1}, g\mathfrak{N}), \end{aligned}$$

and hence

$$\begin{aligned} \|\rho(\mathcal{T}(\mathfrak{N}, \varpi), g\mathfrak{N})\| &\leq \|sr\| \|\rho(g\mathfrak{N}_{\alpha+1}, g\mathfrak{N})\| + \|sb\| \|\rho(\mathcal{T}(\mathfrak{N}, \varpi), g\mathfrak{N}_\alpha)\| \\ &\quad + \|s\| \|\rho(g\mathfrak{N}_{\alpha+1}, g\mathfrak{N})\|. \end{aligned}$$

By the continuity of the metric and norm, we know

$$\|\rho(\mathcal{T}(\mathfrak{N}, \varpi), g\mathfrak{N})\| \leq \|sb\| \|\rho(\mathcal{T}(\mathfrak{N}, \varpi), g\mathfrak{N})\|.$$

It follows from the fact  $\|sb\| < 1$  that  $\|\rho(\mathcal{T}(\mathfrak{N}, \varpi), g\mathfrak{N})\| = 0$ . Thus  $\mathcal{T}(\mathfrak{N}, \varpi) = g\mathfrak{N}$ . Similarly,  $\mathcal{T}(\varpi, \mathfrak{N}) = g\varpi$ . Hence  $(\mathfrak{N}, \varpi)$  is a coupled coincidence point of  $\mathcal{T}$  and  $g$ . The same reasoning as that in the proof of Theorem 3.5 tells us that  $\mathcal{T}$  and  $g$  have a unique common coupled fixed point in  $\Upsilon$ .  $\square$

#### 4 Application

As an application of Corollary 3.3, we find an existence and uniqueness result for the following Fredholm integral equation:

$$\mathfrak{N}(\mu) = \int_{\mathcal{E}} \mathcal{G}(\mu, p, \mathfrak{N}(p), \varpi(p)) dp + \delta(\mu), \quad \mu, p \in \mathcal{E}, \quad (10)$$

where  $\mathcal{E}$  is a measurable set,  $\mathcal{G} : \mathcal{E} \times \mathcal{E} \times \mathbb{R} \times \mathbb{R} \rightarrow \mathbb{R}$ , and  $\delta \in \mathcal{L}^\infty(\mathcal{E})$ . Let  $\Upsilon = \mathcal{L}^\infty(\mathcal{E})$  be the set of essentially bounded measurable functions on  $\mathcal{E}$ . Consider the Hilbert space  $\mathcal{L}^2(\mathcal{E})$ . Let the set of all bounded linear operators on  $\mathcal{L}^2(\mathcal{E})$  be denoted by  $B(\mathcal{L}^2(\mathcal{E}))$ . Obviously,  $B(\mathcal{L}^2(\mathcal{E}))$  is a  $\mathcal{C}^*$ -algebra with usual operator norm. Define  $\rho : \Upsilon \times \Upsilon \rightarrow B(\mathcal{L}^2(\mathcal{E}))$  by (for all  $\delta, \vartheta \in \Upsilon$ )

$$\rho(\delta, \vartheta) = \pi_{|\delta - \vartheta|^2 + I},$$

where  $\pi_q : \mathcal{L}^2(\mathcal{E}) \rightarrow \mathcal{L}^2(\mathcal{E})$  is the multiplicative operator, which is defined by

$$\pi_q(\psi) = q \cdot \psi.$$

Now, we state and prove our result, as follows:

**Theorem 4.1** *Suppose that (for all  $\mathfrak{s}, \varpi, u, v \in \Upsilon$ )*

1. *There exist a continuous function  $\kappa : \mathcal{E} \times \mathcal{E} \rightarrow \mathbb{R}$  and  $\theta \in (0, 1)$  such that*

$$\begin{aligned} & |\mathcal{G}(\mu, p, \mathfrak{s}(p), \varpi(p)) - \mathcal{G}(\mu, p, u(p), v(p))| \\ & \leq \theta |\kappa(\mu, p)| (|\mathfrak{s}(p) - u(p)| \\ & \quad + |\varpi(p) - v(p)| + I - \theta^{-1}I), \end{aligned}$$

*for all  $\mu, p \in \mathcal{E}$ ; and*

2.  $\sup_{\mu \in \mathcal{E}} \int_{\mathcal{E}} |\kappa(\mu, p)| dp \leq 1$ .

*Then, the integral equation (10) has a unique solution in  $\Upsilon$ .*

*Proof* Define  $\mathcal{T} : \Upsilon \times \Upsilon \rightarrow \Upsilon$  by

$$\mathcal{T}(\mathfrak{s}, \varpi)(\mu) = \int_{\mathcal{E}} \mathcal{G}(\mu, p, \mathfrak{s}(p), \varpi(p)) dp + \delta(\mu), \quad \forall \mu, p \in \mathcal{E},$$

Set  $\tau = \theta I$ , then  $\tau \in \mathcal{H}$ . For any  $z \in \mathcal{L}^2(\mathcal{E})$ , we have

$$\begin{aligned} & \|\rho(\mathcal{T}(\mathfrak{s}, \varpi), \mathcal{T}(u, v))\| \\ & = \sup_{\|z\|=1} (\pi_{|\mathcal{T}(\mathfrak{s}, \varpi) - \mathcal{T}(u, v)|^2 + I} z, z) \\ & = \sup_{\|z\|=1} \int_{\mathcal{E}} (|\mathcal{T}(\mathfrak{s}, \varpi) - \mathcal{T}(u, v)|^2 + I) z(\mu) \overline{z(\mu)} d\mu \\ & \leq \sup_{\|z\|=1} \int_{\mathcal{E}} \left[ \int_{\mathcal{E}} |\mathcal{G}(\mu, p, \mathfrak{s}(p), \varpi(p)) - \mathcal{G}(\mu, p, u(p), v(p))| dp \right]^2 |z(\mu)|^2 d\mu \\ & \quad + \sup_{\|z\|=1} \int_{\mathcal{E}} |z(\mu)|^2 d\mu I \\ & \leq \sup_{\|z\|=1} \int_{\mathcal{E}} \left[ \int_{\mathcal{E}} \theta |\kappa(\mu, p)| (|\mathfrak{s}(p) - u(p)| |\varpi(p) - v(p)| + I - \theta^{-1}I) dp \right]^2 |z(\mu)|^2 d\mu + I \\ & \leq \theta^2 \sup_{\|z\|=1} \int_{\mathcal{E}} \left[ \int_{\mathcal{E}} |\kappa(\mu, p)| dp \right]^2 |z(\mu)|^2 d\mu (\|\mathfrak{s} - u\|_{\infty}^2 + \|\varpi - v\|_{\infty}^2) \\ & \leq \theta \sup_{\mu \in \mathcal{E}} \int_{\mathcal{E}} |\kappa(\mu, p)| dp \sup_{\|z\|=1} \int_{\mathcal{E}} |z(\mu)|^2 d\mu (\|\mathfrak{s} - u\|_{\infty}^2 + \|\varpi - v\|_{\infty}^2) \\ & \leq \theta [\|\mathfrak{s} - u\|_{\infty}^2 + \|\varpi - v\|_{\infty}^2] \\ & = \|\tau\| [\|\rho(\mathfrak{s}, u)\| + \|\rho(\varpi, v)\|]. \end{aligned}$$

Hence, all the hypotheses of Corollary 3.3 are verified and, consequently, the integral equation has a unique solution.  $\square$

## 5 Conclusion

In this paper, we proved some coupled fixed point theorems in a continuous  $C^*$ -algebra-valued partial  $b$ -metric space. Certainly, discontinuous  $C^*$ -algebra-valued partial  $b$ -metric spaces will be interesting for researchers.

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**Availability of data and materials**

Not applicable.

**Declarations****Competing interests**

The authors declare that they have no competing interests.

**Authors' contributions**

All authors contributed equally and significantly in writing this article. All authors read and approved the final manuscript.

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**Pre-Incubator Course-Proposal-Reg.,****Dr. Aarthi Head - Operations, MCC-MRF Innovation Park** <headoperationsmccmrfip@mcc.edu.in>

27 January 2023 at 23:31

To: "Dr.MURALI RAMACHANDRAN" &lt;murali@jim.ac.in&gt;

Cc: "Director,JIM" &lt;dirjim@jim.ac.in&gt;, jega patrick &lt;patrick@jim.ac.in&gt;, Ebin Ephrem Elavathingal &lt;mail2ebine@gmail.com&gt;

Dear Dr.Murali,

Greetings from MCC-MRF Innovation Park

Happy to extend our support for your wonderful initiative ' Startup Mela' as a Knowledge Partner.

With reference to the same, please find the proposal with estimated budget for the 2-Day 'Starting-Up 101: Bootcamp' at our premises in Tambaram, Chennai.

MCC-MRF innovation Park is a unit of Madras Christian College established to nurture the culture of research, innovation and entrepreneurship as well as supporting Startups. The Innovation Park spread across 45,000sq.ft houses centers for Data Sciences, Computational Sciences, Fintech and Education technology, entrepreneurship cafe, writers cafe and boutique.

We are looking forward to hosting you and together we can nurture the future.

Regards,

--

**Dr. C. Aarthi Ram**

Startup Ecosystem Enabler | Healthcare Startup Mentor

Head-Operations, MCC-MRF Innovation Park, MCC

[www.mccmrfip.com](http://www.mccmrfip.com)**MCC -MRF**  
Innovation Park**MADRAS CHRISTIAN COLLEGE** **MMIP\_intro.pdf**

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**2 attachments****MCC -MRF**  
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64K**Start IT.pptx**  
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**Pre-Incubator Course-Proposal-Reg.,**

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**Dr.MURALI RAMACHANDRAN** <murali@jim.ac.in>

1 March 2023 at 12:57

To: "Dr. Aarthi Head - Operations, MCC-MRF Innovation Park" &lt;headoperationsmccmrfip@mcc.edu.in&gt;

Cc: "Director,JIM" &lt;dirjim@jim.ac.in&gt;, Rev Fr I Antony Inico SJ &lt;inico@jim.ac.in&gt;, pappu rajan &lt;ap\_rajan2001@jim.ac.in&gt;, sulochana Arul &lt;sulochana@jim.ac.in&gt;

Madam,

Thank you for your acknowledgement to arrange training on the dates **16th -17th of March,2023**. After the 6th of March, we will send you the participant's number and details. You shall send your payment mode and terms. As discussed earlier, pls arrange one online session prior to the physical training which sets expectations and a brief outline of the training.

Note: Request you to "Reply all" for all your replies.

Dr.R Murali M.B.A., PhD, SET.,  
Assistant Professor  
Chair-Digital,FDP and Website Updates  
St Joseph's Institute of Management-(JIM)-A Jesuit Business School  
St.Joseph's College(Autonomous) Tiruchirappalli-2  
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**Pre-Incubator Course-Proposal-Reg.,****Dr.MURALI RAMACHANDRAN** <murali@jim.ac.in>

9 March 2023 at 10:22

To: "Dr. Aarthi Head - Operations, MCC-MRF Innovation Park" &lt;headoperationsmccmrfip@mcc.edu.in&gt;

Cc: "Director,JIM" &lt;dirjim@jim.ac.in&gt;, Rev Fr I Antony Inico SJ &lt;inico@jim.ac.in&gt;

Madam,

Greetings. As discussed and with subsequent approval provided by the Fr. Director, I am sending this email to initiate the BootCamp for the Startup Mela 5.0 prize winners.

The total number of participants who attend the program is **12**. (Out of which two are from LIBA Chennai. The cost of the programme is Rs 5000 +GST

I will be accompanying the participants.

Thank you so much for your attention and participation.

Request you to share the Proforma invoice and terms of payment.  
Include our GST number in the invoice.

**GST Number: 33AABTS7837C2ZJ****PAN: AABTS7837C****St. Joseph's Institute of Management** is a unit of the Society of St Joseph's College, Trichy

Prize winners	Name of the Business Idea	Short Description	Prize winners	Email ID
Track 2	RENEWABLE CHARGER (Rs 20000)  Engineering students	Renewable charger is a product that's based on solar energy. The product can be used as power bank to charge the electronic gadgets such as mobile phone, tablets, smart watches etc.	Venkatesh R (M) Sudhersun S (M)	<a href="mailto:sudhersenkavi@gmail.com">sudhersenkavi@gmail.com</a>  Trichy
Track 3	VEGAN LEATHER (Rs 20000)  Arts and Science Students	MANGO BIO LEATHER  "Flexible leather-like sheet made from overripe mangoes. The material is thin but emulates the feeling of leather quite well but feels a little dryer to the touch than leathers used in most clothing items and accessories.	Edwin Nelsi M (F) Fahamitha S (F) Claire Jofiel E (F)	<a href="mailto:jofielclaire@gmail.com">jofielclaire@gmail.com</a> <a href="mailto:famidha26@gmail.com">famidha26@gmail.com</a> <a href="mailto:edwindhas4584@gmail.com">edwindhas4584@gmail.com</a>  Trichy
Track 4	ASTERMACH HIGH ALTITUDE SCIENCE (Rs 20000)  PG MBA students	AsterMach High Altitude Science At AsterMach, we provide a platform for doing near space research and near space branding of a company or product. We make use of High-Altitude Balloon Technology to	Shobin Mathew B (M) Shurya S (F)	<a href="mailto:shobin.mathew@liba.edu">shobin.mathew@liba.edu</a> <a href="mailto:shurya.shreekanthan@liba.edu">shurya.shreekanthan@liba.edu</a>  Chennai

		achieve this feat. We have already conducted 3 space launches and are the first team in India to do near space branding.		
<b>Track 5</b>	SOUL-MATE (Rs 10000) <b>PG MBA students</b>	Providing comprehensive funeral services end to end who do not have the support of their wards at the time of their death	Arthanari Rajesh V (M) Kaushik Rohan P (M)	<a href="mailto:22pba209@jim.ac.in">22pba209@jim.ac.in</a> <a href="mailto:22pba228@jim.ac.in">22pba228@jim.ac.in</a>
	SMART STORAGE HUB (Rs 10000) <b>PG MBA students</b>	Providing flexible storage option to the local merchants who find big trouble in storing their inventories through technology	Annestin Rohan W (M) Subramani AR (M) Anto Joe Renish R (M)	<a href="mailto:22pba2154@jim.ac.in">22pba2154@jim.ac.in</a> <a href="mailto:22pba218@jim.ac.in">22pba218@jim.ac.in</a> <a href="mailto:22pba219@jim.ac.in">22pba219@jim.ac.in</a>  Trichy

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**Bootcamp for prize winners @ Madras Christian College-MRF Incubation Park-Reg.,****Dr.MURALI RAMACHANDRAN** <murali@jim.ac.in>

9 March 2023 at 10:42

To: sudhersenkavi@gmail.com, jofielclaire@gmail.com, famidha26@gmail.com, edwindhas4584@gmail.com, shobin.mathew@liba.edu, shurya.shreekanthan@liba.edu, 22pba209@jim.ac.in, 22pba228@jim.ac.in, 22pba215@jim.ac.in, 22PBA218@jim.ac.in, 22pba219@jim.ac.in

Cc: Rev Fr I Antony Inico SJ <inico@jim.ac.in>, "Director,JIM" <dirjim@jim.ac.in>, headop@mccmrfip.com

Dear Prize Winners of Startup Mela 5.0,

As promised, pre-incubator training is arranged at Madras Christian College-MRF Incubation Park, Chennai for all the prize winners. The program details are attached below.

Join the Whatsapp group for faster communication.

<https://chat.whatsapp.com/KJCdrSvEkoxHPJxljqWn4o>

An orientation towards the session will be online on 11th March (11.00 am)

You shall book tickets on your own accord and get prepared for the programme.

**Points**

1. An Accommodation is arranged in the International Hostel on twin sharing basis.
2. Food, Refreshments, Materials and a certificate will be provided upon the completion of the programme.
3. **JIM is taking care of the above-mentioned cost (other than your travel)**

The institute is paying Rs 5000+GST per head and requests you to make use of the program. The prize money will be credited upon the successful completion of the program.

Thanks in advance

**Address of the Institute**

Madras Christian College  
Tambaram, Chennai – 600 059  
Tamil Nadu, India

If you take the train, you shall get down at Tambaram station and move towards the railway platform which takes you to East Tambaram. The College is located opp to the Tambaram station only. If by bus, you shall get down in the Tambaram.

Prize winners	Name of the Business Idea	Prize winners	Email ID
Track 2	RENEWABLE CHARGER (Rs 20000)  Engineering students	Venkatesh R (M) Sudhersun S (M)	<a href="mailto:sudhersenkavi@gmail.com">sudhersenkavi@gmail.com</a>  Trichy
Track 3	VEGAN LEATHER (Rs 20000)  Arts and Science Students	Edwin Nelsi M (F) Fahamitha S (F) Claire Jofiel E (F)	<a href="mailto:jofielclaire@gmail.com">jofielclaire@gmail.com</a> <a href="mailto:famidha26@gmail.com">famidha26@gmail.com</a> <a href="mailto:edwindhas4584@gmail.com">edwindhas4584@gmail.com</a>  Trichy
Track 4	ASTERMACH HIGH ALTITUDE	Shobin Mathew B	<a href="mailto:shobin.mathew@liba.edu">shobin.mathew@liba.edu</a> <a href="mailto:shurya.shreekanthan@liba.edu">shurya.shreekanthan@liba.edu</a>

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Tiruchirappalli-2  
Phone:+91 7358051015



	SCIENCE (Rs 20000) <b>PG MBA students</b>	(M) Shurya S (F)	Chennai
Track 5	SOUL-MATE (Rs 10000) <b>PG MBA students</b>	Arthanari Rajesh V (M) Kaushik Rohan P (M)	<a href="mailto:22pba209@jim.ac.in">22pba209@jim.ac.in</a> <a href="mailto:22pba228@jim.ac.in">22pba228@jim.ac.in</a> Trichy
	SMART STORAGE HUB (Rs 10000) <b>PG MBA students</b>	Annestin Rohan W (M) Subramani AR (M) Anto Joe Renish R (M)	<a href="mailto:22pba215@jim.ac.in">22pba215@jim.ac.in</a> <a href="mailto:22pba218@jim.ac.in">22pba218@jim.ac.in</a> <a href="mailto:22pba219@jim.ac.in">22pba219@jim.ac.in</a> Trichy

DAY/SESSION	ACTIVITY
DAY 01 ORIENTATION	Orientation Programme (Online)
DAY 01 ORIENTATION	Idea Validation
DAY 02 MARKETING	Market Identification
DAY 02 MARKETING	Lean Canvas Business Model
DAY 02 MARKETING	Pitching the Pitch

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Rev. Dr. P PAULRAJ SJ

DIRECTOR  
ST. JOSEPH'S INSTITUTE OF MANAGEMENT

Dr. C. AARTHI RAM

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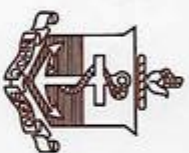
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*Kaushik Rohan P*

from **St. Joseph's Institute of Management** has successfully completed the 2-Day 'Kick-Start: Bootcamp' Jointly organized by **MCC-MRF Innovation Park, Madras Christian College** and **St. Joseph's Institute of Management-(JIM), Trichy** as part of **Startup Mela 5.0** on **16 & 17 March 2023** at **Madras Christian College**.

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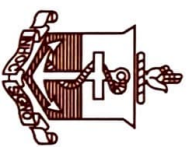
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THIS IS TO CERTIFY THAT

*Shobin Matthew B*

from **Loyola Institute of Business Administration** has successfully completed the 2-Day 'Kick-Start: Bootcamp' jointly organized by **MCC-MRF Innovation Park, Madras Christian College** and **St. Joseph's Institute of Management-(JIM)**, Trichy as part of **Startup Mela 5.0** on **16 & 17 March 2023** at **Madras Christian College**.

Rev. Dr. P PAULRAJ SJ

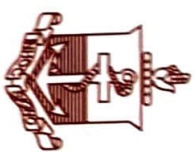
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MCC-MRF INNOVATION PARK

Dr. P. WILSON

PRINCIPAL & SECRETARY,  
MADRAS CHRISTIAN COLLEGE



# CERTIFICATE OF EXCELLENCE

THIS IS TO CERTIFY THAT

*Shuruya S*

from **Loyola Institute of Business Administration** has successfully completed the 2-Day 'Kick-Start: Bootcamp' jointly organized by **MCC-MRF Innovation Park, Madras Christian College** and **St. Joseph's Institute of Management-(JIM), Trichy** as part of **Startup Mela 5.0** on **16 & 17 March 2023** at **Madras Christian College**.

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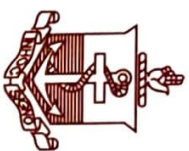
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# CERTIFICATE OF EXCELLENCE

THIS IS TO CERTIFY THAT

*Venkatesh R*

from **K. Ramakrishnan College of Engineering** has successfully completed the 2-Day 'Kick-Start: Bootcamp' jointly organized by **MCC-MRF Innovation Park, Madras Christian College** and **St. Joseph's Institute of Management-(JIM), Trichy** as part of **Startup Mela 5.0** on **16 & 17 March 2023** at Madras Christian College.

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# CERTIFICATE OF EXCELLENCE

THIS IS TO CERTIFY THAT

*Sudherson S*

from **K. Ramakrishnan College of Engineering** has successfully completed the 2-Day '**Kick-Start: Bootcamp**' Jointly organized by **MCC-MRF Innovation Park, Madras Christian College** and **St. Joseph's Institute of Management-(JIM)**, Trichy as part of **Startup Mela 5.0** on **16 & 17 March 2023** at Madras Christian College.

Rev. Dr. P PAULRAJ SJ

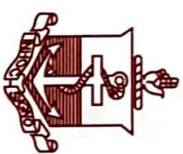
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# CERTIFICATE OF EXCELLENCE

THIS IS TO CERTIFY THAT

*Claire Jafiel E*

from **Shrimati Indira Gandhi College** has successfully completed the 2-Day 'Kick-Start: Bootcamp'  
Jointly organized by **MCC-MRF Innovation Park, Madras Christian College** and **St. Joseph's  
Institute of Management-(JIM), Trichy** as part of **Startup Mela 5.0** on **16 & 17 March 2023** at  
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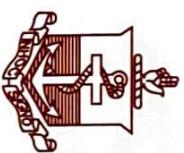
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# CERTIFICATE OF EXCELLENCE

THIS IS TO CERTIFY THAT

*Edwin Welsi M*

from **Shrimati Indira Gandhi College** has successfully completed the 2-Day 'Kick-Start: Bootcamp'  
Jointly organized by **MCC-MRF Innovation Park, Madras Christian College** and **St. Joseph's  
Institute of Management-(JIM)**, Trichy as part of **Startup Mela 5.0** on **16 & 17 March 2023** at  
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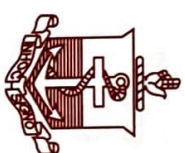
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# CERTIFICATE OF EXCELLENCE

THIS IS TO CERTIFY THAT

*Fahamitha S*

from **Shrimati Indira Gandhi College** has successfully completed the 2-Day 'Kick-Start: Bootcamp'  
Jointly organized by **MCC-MRF Innovation Park, Madras Christian College** and **St. Joseph's  
Institute of Management-(JIM)**, Trichy as part of **Startup Mela 5.0** on **16 & 17 March 2023** at  
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